



FEEDBACK



Web Site k3dn.org

Warminster Amateur Radio Club

January 2017

Next Meeting January 5th - Q&A / Stump the Chumps

President's Message

The Holiday Season is winding down, and Winter is in full swing as we begin another year of radio wonder. For me, 2017 will mark my 25th year as a licensed Amateur Radio operator, and what a ride it's been! The past year was quite eventful for WARC, as well. In 2016, WARC took part in ARRL's National Parks on the Air, activating Valley Forge National Park; persevered through a rainy, soggy, but nonetheless well-attended Hamfest; got back on track with a successful Field Day operation at the Shrine of Czestochowa; hosted 2 of the largest crowds the club has seen in years for meeting presentations by Derrick Pitts KA3NQN (Franklin Institute) and Bob Allison WB1GCM (ARRL Lab); and experienced substantial growth as our membership soared beyond the 150-member mark!

Alas, much like the worlds of music and entertainment, Amateur Radio also suffered our share of loss in 2016, among them the King of Thailand HS1A; NASA astronaut and SAREX (original amateur radio in space program) operator Chuck Brady N4BQW; ARRL President Emeritus Jim Haynie W5JBP; and none more painful to us than WARC's own Vice President, Vinny Porcaro K3VJP (SK). While all will be sorely missed, we thankfully remember each for their contributions to amateur radio, especially Vinny's efforts to make us more safety conscious and better prepared for emergency situations, as amateurs and personally.

Looking forward to 2017, WARC will not be resting on our laurels! We have multiple events planned for the coming year, including a trip to ARRL HQ (April), an exciting new future for our Hamfest (May), a Special Event from the Union League of Philadelphia and a great Field Day operation (both in June) - and that's just the first half of the year!!

Your participation in the above activities, and all that will follow, is not only welcomed, but highly encouraged as we invest in our members and grow stronger as a club. The club is its members, and the more diverse the input, the broader the appeal for members new and old, so please step up and take part in the opportunities afforded by your membership in WARC. We want you to show us which direction to go next!

This month's presentation is going to be a new twist on the "Stump the Chumps" format, with interesting questions and prizes for the competitors. Be there, or be Stumped!

Wishing you all a healthy, rewarding New Year!

de Tony, W3FLH
73

HAM Radio Classes in the Spring of 2017

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 KB3OOB March 13th for 6 Mondays in a row from 7pm to 9 pm

Extra classes will be taught by George Altemus KA3WXV March 13th for 8 Mondays in a row from 7pm to 9 pm

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

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On November 30, WARC lost its Vice President and Safety Officer, Vinny Porcaro K3VJP (SK). Vinny was an active and integral member of the club, adding an emphasis on safety and emergency preparedness that will add to our lives for years to come. In honor of Vinny's memory, WARC made a donation to the ARRL Education and Technology Fund, which was acknowledged in the accompanying letter. Our prayers and condolences are extended to Vinny's family.



ARRL The national association for
AMATEUR RADIO®
Advancing the art, science, and enjoyment of Amateur Radio



December 7, 2016

Warminster Amateur Radio Club, K3DN
C/o Bill Ballantine, K3PMQ, Treasurer WARC
P.O. Box 113
Warminster, PA 18974

Dear Friends:

On behalf of the American Radio Relay League, thank you for your memorial contribution of \$100.00 in memory of Mr. Vinny Porcaro, K3VJP (SK), to ARRL's Education and Technology Fund.

We will notify Ms. Gloria Porcaro of your memorial donation in honor of Mr. Porcaro.

Your support of ARRL through your memorial contribution and your support for the work of the ARRL will ensure that your national association will remain financially strong and will be able to explore new services to expand your enjoyment of the Amateur Radio service.

Thank you so much!

Sincerely,

Lauren B. Clarke, KB1YDE
Development Manager

ARRL is an IRS-designated 501(c)(3) organization holding federal tax identification # 06-6066004. Accordingly, your contribution may be tax deductible to the extent allowed by law. No goods or services have been provided for this contribution.

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|--|--|--|---|
| ■ Rick Rodenski, K3UR
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Second Vice President | ■ Jay Bellows, K2GB
Vice President International Affairs |
| ■ Tom Gallagher, NY2RF
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Secretary | ■ Barry J. Shelley, N1VXY
Chief Financial Officer | ■ Brennan Price, N4QX
Chief Technology Officer | ■ Rick Newman, K7GM
Treasurer |

ARRL Headquarters, 225 Main Street, Newington, Connecticut, USA 06111-1494

Telephone: 860-594-0200 ■ FAX: 860-594-0209 ■ www.arrl.org

AMERICAN RADIO RELAY LEAGUE, INC.—International Secretariat of the International Amateur Radio Union

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THE K7RA SOLAR UPDATE

The Australian Space Forecast Centre issued a Geomagnetic Disturbance Warning on December 29 at 0010 UTC.

“A recurrent equatorial coronal hole will soon reach geoeffective location on the solar disk. The size of the current coronal hole is relatively larger compared to its characteristics during the previous rotation. The co-rotating interaction region and subsequent high speed streams associated with the coronal hole is expected to affect Earth from late 30 December. Auroras may be visible on the local nights of 30 and 31 December in Tasmania and possibly from the coastline of Victoria.”

The warning said to expect active geomagnetic conditions on December 30 and 31.

The past two and a half weeks have seen seven days with zero sunspots, spread over four periods of one to three days each.

The first was December 10, then two days over December 16-17, then three days on December 23-25 and finally yesterday, December 29.

Over the latest reporting week, December 22-28, average daily sunspot number was 7.6, down from 11 over the previous seven days. Average daily solar flux changed only slightly from 73.2 to 73.6. Average daily planetary A index increased from 7.9 to 17.3 and mid-latitude A index from 5.7 to 11.6.

Predicted solar flux is about the same as recent indices. 72 on December 30, 75 on December 31 through January 6, 79 on January 7-9, 77 on January 10-13, 75 on January 14-19, 73 on January 20-23, 75 on January 24-27, 77 on January 28 through February 1, 79 on February 2-5, and 77 on February 6-9.

Predicted planetary A index is 10, 24, 18, 10 and 12 on December 30 through January 3, 24 on January 4-5, then 16, 14 and 6 on January 6-8, 5 on January 9-13, 10 on January 14, 5 on January 15-16, then 25, 20 and 25 on January 17-19, 18 on January 20-21, 10 on January 22, 5 on January 23-25, then 15, 10, 5, 8, 10 and 20 on January 26-31, then 22, 16, 14 and 6 on February 1-4 and 5 on February 5-9.

We also have a geomagnetic activity forecast from Petr Kolman, OK1MGW, for the period December 30 2016 til January 25, 2017.

Geomagnetic field will be:

Quiet on January 10-12

Mostly quiet on January 8-9, 25

Quiet to unsettled on January 1-3, 13-16, 23-24

Quiet to active on December 30 January 6-7, 17-20

Active to disturbed on December 31, January 4-5, 21-22

Increased solar wind from coronal holes expected on December 30-31, January 4-7, 17-22.

Sunspot numbers for December 22 through 28 were 12, 0, 0, 0, 13, 14, and 14, with a mean of 7.6. 10.7 cm flux was 74.8, 73.7, 73.1, 72.5, 73.8, 73.7, and 73.3, with a mean of 73.6. Estimated planetary A indices were 23, 24, 14, 21, 22, 11, and 6, with a mean of 17.3. Estimated mid-latitude A indices were 15, 17, 10, 12, 15, 8, and 4, with a mean of 11.6.

Courtesy of the ARRL Newsletter

New Amateur Radio FM Transponder CubeSat Now in Space

The BY70-1 CubeSat launched on December 28 from the Taiyuan Space Launch Center in China, but in a lower orbit than intended. The satellite carries an Amateur Radio FM transponder.

BY70-1 was intended to go into a 530-kilometer (approximately 329-mile) circular Sun-synchronous orbit, but it appears the orbit is 524 × 212 kilometers, which will give the spacecraft an orbital lifetime of just a month or two.

Paul Stoetzer, N8HM, reported [working](#) Wyatt Dirks, AC0RA, through the FM transponder during the 1709 UTC pass on December 28. “Uplink requires precise frequency adjustment, and there’s a delay on the downlink, but the signal is strong,” Stoetzer said. BY70-1 is a 2U CubeSat project for education and Amateur Radio. It features 3-axis stabilization and deployable solar panels. In addition to the FM transponder, BY70-1 has a camera, and plans call for downloading images and telemetry via a 9600 bps BPSK downlink. The IARU Amateur Satellite Frequency Coordination pages list an uplink of 145.920 MHz, and a downlink of 436.200 MHz.

AMSAT-UK has [more information](#).

Courtesy of the ARRL Newsletter

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Chinese Over-the-Horizon Radar QRMing Low End of 40 Meters

The IARU Region 1 ([IARU-R1](#)) Monitoring System [newsletter](#) reports that one of China's HF Over-the-Horizon radars (OTH-R) has been transmitting on 6.999 MHz, impinging on the very low end of the 40-meter band.

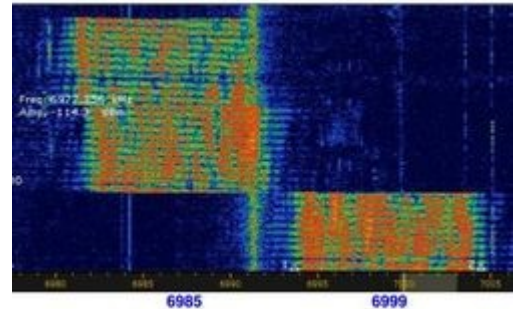
As the newsletter reported: "A jumping Chinese OTH radar covered the CW DX-edge of our exclusive 7 MHz band on November 17 at about 1500 UTC and later (long lasting)." The signal was 67 sweeps per second with a 10 kHz bandwidth.

Elsewhere on 40 meters, military ALE transmissions have been heard from Kyrgyzstan on 7050.0 kHz. IARUMS also reports that the Australian Jindalee Operational Radar Network (JORN) has been heard on 10.131 MHz in the amateur 30-meter band; Amateur Radio is secondary on 30 meters.

Radio Eritrea appeared in November on 7180 kHz together with white noise from Ethiopia. The frequencies 7146.5, 7175, and 7185 kHz were reported to be still in use as well.

Reports of Amateur Radio band intruders may be [logged](#) on the IARU Region 1 Monitoring System logger.

Courtesy of the ARRL Newsletter



Waveform of the Chinese OTH radar on 6.999 MHz, taken by Wolf Hadel, DK2OM.

Amateur Radio Parity Act Bill Unable to Overcome Florida Senator's Objections

The Amateur Radio Parity Act, H.R. 1301, suffered an unbecoming demise on December 9 as the 114th Congress drew to a close. After passing the House of Representatives on a unanimous vote earlier this fall, the bill stalled in the Senate due to the intervention of only one member, Sen. Bill Nelson (D-FL). The measure would have directed the FCC to extend its rules relating to reasonable accommodation of Amateur Service communications to private land-use restrictions, such as covenants, conditions, and restrictions (CC&Rs) imposed by homeowners associations.

"[During 2016] Nelson received thousands of e-mails, letters, and phone calls from concerned constituents asking for his support of H.R. 1301. Numerous meetings were held with his senior staff in an effort to move the legislation forward," ARRL said in a [news release](#). "Negotiations, which led to an agreement with the Community Associations Institute ([CAI](#)), the national association of homeowner's associations and publicly supported by CAI and ARRL, were brushed aside by Sen. Nelson as irrelevant."

In a final meeting with Nelson's staff as the 114th Congress neared adjournment, it became clear that no matter what was said or done, the Senator would oppose the bill and refuse to allow it to move forward. Because the measure had not been put on the floor schedule, the only way it could have passed the Senate would have been through a process called "unanimous consent." A Senate member may request unanimous consent on the floor to set aside rules and expedite proceedings. If any single Senator objects, though, the request is rejected.

The unhappy ending followed nearly 2 years of intense effort on the part of ARRL and thousands of its members, who contacted their Congressional representatives to urge their support of the measure on Capitol Hill. The ARRL Board of Directors is expected to discuss the future of the initiative at its January meeting.

Courtesy of the ARRL Newsletter

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Commemorative Special Event Reenacts 1921 Amateur Radio Transatlantic Reception

Radio amateurs in the US and in Scotland have reenacted the first successful transatlantic reception of a shortwave Amateur Radio signal nearly a century earlier. Special event station [N1BCG](#) in Greenwich, Connecticut, and GB2ZE in Ardrossan, Scotland, completed contacts on SSB and on CW during the December 11 event. ARRL, the Radio Society of Great Britain ([RSGB](#)), and the Radio Club of America ([RCA](#)) partnered to support the activity, organized by ARRL CEO Tom Gallagher, NY2RF, and Clark Burgard, N1BCG, who loaned his history-rich call sign for the occasion.

On December 11, 1921, in Ardrossan, Scotland, reception of a radio signal transmitted from an RCA test station -- located in a small shack on the Greenwich, Connecticut, property of Minton Cronkhite, 1BCG -- helped to usher in the age of global communication. In Scotland, American Paul Godley, 2ZE, clearly heard the signal using a receiver of his own design.

"These events are fun, because they're timely and cause us to focus on the history and on the people who made history," Gallagher said. "We were very pleased with the tenor of it and with the media coverage, and we were happy to make the connection with GB2ZE, although we would have preferred to have made it on 160 meters, where it would have been closer to the frequency used in 1921." The 1921 transatlantic test, on CW, was conducted on a wavelength of 230 to 235 meters (about 1.3 MHz). The ARRL transatlantic tests proved the value of the shorter wavelengths, which had long been considered worthless for long-distance communication.



Clark Burgard, N1BCG, was one of the organizers of the special event. [Bob Inderbitzen, NQ1R, photo]



Radio Club of America Board Member Mike Clarson, WV2ZOW (left), and ARRL Field Services Manager Dave Patton, NN1N, operate the N1BCG special event. [Bob Inderbitzen, NQ1R, photo]

Burgard spoke on 20-meter SSB with GB2ZE, operated by Jason O'Neill, GM7VSB, in Ardrossan. A bit later, ARRL Field Services Manager Dave Patton, NN1N, chatted with GB2ZE on CW. "After working GB2ZE on 20 meters, I was reminded of how much of a challenge the RCA ops had using 200 meters," Patton said. "Hearing signals in Europe from across the Atlantic had to be a tremendous thrill for Godley and the others listening."

The first message sent by Burgard from Greenwich to Ardrossan on Sunday morning repeated the original 1921 text. Patton retransmitted the message 30 minutes later on CW.

Describing the special event as "a rewarding experience," Patton said the entire team worked together to build a Field Day-style station in wintry weather. The complement of equipment included what he called "a few fully armed vintage AM stations," as well as modern gear. Among the older pieces was a 1950s-era transmitter owned by rocker Joe Walsh, WB6ACU, of the Eagles.

The antennas were simple dipoles.

With about a dozen operators active, the special event logged nearly 525 contacts, more than 100 of them on AM, through conditions that were only fair.

To highlight the historical nature of the occasion, Godley's grandchildren Bruce Godley Littlefield and his sister, Janice Taylor, visited, and Littlefield brought his grandfather's complete log books of the experiment, as well as numerous photos and letters from ARRL.

"We enjoyed the opportunity to reconnect the Godley history with that of ARRL and the Radio Club of America," Littlefield said afterward.

Courtesy of the ARRL Newsletter



Bruce Godley Littlefield and his sister Janice Taylor are grandchildren of Paul Godley, 2ZE, who was at the Ardrossan, Scotland, receiving station in 1921.

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.

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 2017

January - Q&A / Stump the Chumps

February - Club Auction

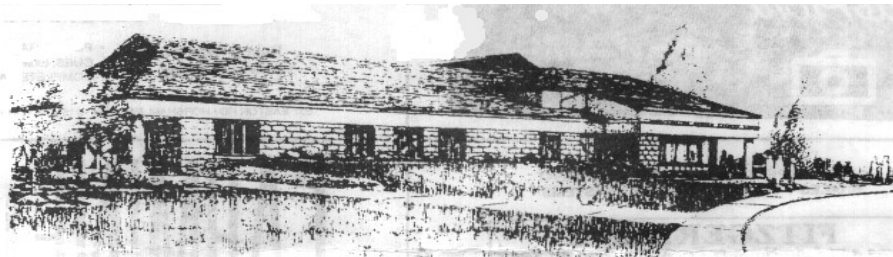
March - QSL card Presentation Tom Mills AF4NC

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.



2017 Contest Calendar

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

MARCH

International DX- Phone - March 4-5

Starts 0000 UTC Saturday; ends 2359 UTC Sunday

QSO Parties

Montana 0000Z-2400Z, Jan 28

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 2017 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 ➤ 2017

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
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,

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.

Technician classes will be taught by Ron Small KB3OOB March 13th for 6 Mondays in a row from 7pm to 9 pm.

Extra classes will be taught by George Altemus KA3WXV March 13th for 8 Mondays in a row from 7pm 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	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 ?**

2017 Officers

Executive Officers

President	Tony Cuttone	W3FLH	267-679-9297
Vice-President			
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			
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			
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