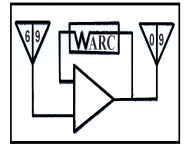




FEEDBACK



Warminster Amateur Radio Club

Web Site <http://www.k3dn.org>

December 2004

Next Meeting December 13th - Holiday Dinner

President's Message



A couple of weeks ago the Philadelphia Eagles played the Cleveland Browns' football team. What a win that was. Somehow the sports media led me to believe that it was going to be a lot easier than it really was. Being originally from Cleveland, Ohio, part of me was rooting for the Browns; at least a little bit. I grew up watching the Brownies get beat a lot. While losing isn't the worst thing, it was always the way they lost games. Lot's of penalties, poor play selection and players who it seemed were just not up to the game. And there was a lot of criticism about Art Modell, the team owner, calling plays and players from the owner's booth. The Cleveland Browns lost more than one good coach over the years due to the poor leadership on the part of the team owner. Some of those coaches have gone on to Super Bowl victories after leaving Cleveland. Now if you don't know, Art moved the original team out of Cleveland a few years ago, to Baltimore. Rumor has it that his business partners have pretty much bought him out the franchise. That explains why the Ravens are having a better time making the playoffs than when they were the Browns in Cleveland. Anyway, I was proud of the way Cleveland played, even if they almost beat the Eagles. It just shows you what teamwork can do for a team.

All of us in the Warminster Amateur Radio Club are part of a team. We are a very special team composed of individuals, who like football players possess individual special talents, likes and dislikes. And while there are differences among us, we put them

December, 2004 Special Events

Quincy, IL: Western Illinois Amateur Radio Club, K9C. 0000Z **Dec 3-2400Z Dec 14** Quincy, Illinois, Christmas Avenue of Lights. 28.325 21.325 14.250 7.250 SSB CW RTTY PSK. Certificate. Robert G. Mitchell, 816 Long Dr, Quincy, IL 62305.

Duluth, MN: Arrowhead Radio Amateur Club, W0GKP. 1500Z-2300Z **Dec 4** 75th Anniversary of club affiliation with ARRL. 21.375 14.280 7.275 3.875. Certificate. Robert Schulz, 115 Eden Ln, Duluth, MN 55805-1533. www.qsl.net/w0gkp/

Pittsburgh, PA: Carnegie Science Center, NY3EC. 1500Z-2000Z **Dec 4** 50th Anniversary Miniature Railroad and Display. 147.03 14.250 7.265. Certificate. Art Mueller, WA3BKD, 1532 Millers Run Rd, McDonald, PA 15057. www.miniaturerailroad.org

Various, United States: National Weather Service and ARRL. 0000Z-2400Z **Dec 4** Sixth annual SKYWARN Recognition Day (SRD). See page 72 in this issue or go to <http://hamradio.noaa.gov> for complete information.

Grand Junction, CO: Western Colorado Amateur Radio Club, N0W. 0000Z **Dec 4-0000Z Dec 5** 2004 SKY-WARN Recognition Day at Walker Field Airport. 28.460 21.260 14.260 7.260. QSL. Bob Vogel, W0RY, 155 Ponderosa Dr, Fruita, CO 81521. www.wcarc.ws/status.htm

Homestead, FL: Everglades Amateur Radio Club, W4SVI. 1600Z **Dec 4-1600Z Dec 5** Commemorating the dedication of Everglades National Park by President Harry S. Truman, December 6, 1947. SSB 40 20 15 10 m. Certificate. Everglades Amateur Radio Club, PO Box 900113, Homestead, FL 33090-0113.

Linthicum, MD: Historical Electronics Museum ARC, W2W. 1400Z **Dec 4-2200Z Dec 7** Commemorating the 1941 attack on Pearl Harbor. 14.241 14.041 7.241 7.041. Certificate. HEMARC-W2W, PO Box 742, MS 4015, Baltimore, MD 21203. A QSL card may be requested. www.qsl.net/w3hem

Baton Rouge, LA: USS Kidd ARC/Baton Rouge ARC, W5KID. 1500Z-2300Z **Dec 7** Pearl Harbor Day. General class bands, 14.250 to 14.320; CW QRP subbands. QSL. W5KID, c/o USS Kidd Museum, 305 S River Rd, Baton Rouge, LA 70802.

Nazareth-Bethlehem, PA: Christmas ARC and Delaware-Lehigh ARC, WX3MAS. 1400Z **Dec 11-0200Z Dec 13**. Annual Christmas greetings from the twin Christmas Cities. 28.465 21.365 14.265 7.270 3.970. Certificate. CCARC/DLARC, WX3MAS, Greystone Building, Gracedale Complex, RR 8, Nazareth, PA 18064. www.dlarc.org

Delmar, NY: Marconi Net, W2M. 0200Z-0400Z **Dec 13** Commemorating the first anniversary of the Marconi Net. 3.872. Certificate. Fred Thumhart, Jr, 5 Old Ox Rd, Delmar, NY 12054.

Santa Ana, CA: Anaheim Police Radio Club, K6B. 0000Z **Dec 16-2359Z Dec 30**. 60th anniversary of the Battle of the Bulge WW2. 21.350 18.150 14.250 7.250. QSL. Mark McMullin, KM6HB, PO Box 27271, Santa Ana, CA 92799. km6hb@arrl.net

Belen (Bethlehem), NM: Valencia County Amateur Radio Association, KC5OUR. 1400Z **Dec 18-2359Z Dec 26**. Celebrating the Christmas season from Bethlehem, New Mexico. 28.272 21.272 14.272 7.272. QSL. VCARA, PO Box 268, Peralta, NM 87042.

Lake Charles, LA: N1CC. 0000Z **Dec 24-2359Z Dec 25**. Christmas Carol. 28.475 21.375 14.275 7.245. QSL. Via <http://qrz.com> listing or <http://users.aol.com/N1CC>.

Courtesy The ARRL Newsletter

aside for the greater good of the club, and of amateur radio. And like the Eagles who celebrated their sixth victory with the win in Cleveland, we are about to celebrate a milestone of our own. This December the Warminster Amateur Radio Club will celebrate 40 years of service in the community. The thing that has made the club a success over time has been the teamwork that is highly visible throughout the club. Not just in the formal officer structure (President, Vice President, etc.), but at every level

(Continued on page 2)

The Warminster Amateur Radio Club is a volunteer-based organization. Without the selfless work performed by volunteers such as yourself, there would be no Club.



(Continued from page 1)

of membership throughout the club. Officers have their place in any organization, but club officers know it's the members who help coordinate public service events and facilitate radio maintenance and upkeep that are more important to the club than any term of office. It's the committee chairs who head Public Service, Hamfest, QSO Party, Field Day and other special events that we all can point to with pride of achievement. That's what the club really is about. If it weren't for the teamwork of all those who currently give their time to these tasks, and those who came before us, and those who will come after, there wouldn't be a Warminster Amateur Radio Club. So my hat is off to all of you as we prepare to celebrate that 40th Anniversary and the teamwork that brought us here.

As a side note, the club could use its current leaders to rotate around, so that a "fresh pair of eyes" and a new perspective can continually be brought into their roles. Recently Mark Kempisty, N3GNW stepped up to the plate to take on the Pennsylvania QSO party responsibility. In that same spirit the club needs you to volunteer for a role. Check out the club website at <http://www.k3dn.org/officers.htm> to see if you might be interested to fill in for one of the open positions. By the same token, existing Committee chairs could always use another pair of hands and eyes to lighten their load. So don't be shy. None of us knew what we were doing when we first started in those roles. The offer of your talent and time is always welcome, and you will have an opportunity to learn something new as well as meet some really great people.

Warminster Amateur Radio Club Minutes for Club Meeting November 8, 2004

Meeting called to order by the President at 7:45 pm.

VISITORS-

Harry Lewis

UPGRADES -

None

NEW MEMBERS-

None

INTRODUCTIONS-

MINUTES FROM THE LAST MEETING-

Approved as published in the Feedback Newsletter.

Treasurers Report-

As given by the treasurer.

FUTURE MEETING PROGRAMS-

December 13, 2004-

Annual Holiday Social Dinner. The menu and pricing will remain the same as last year. Advance purchase tickets only. No tickets will be sold at the door. See George(N3HBT) or Elaine(N3TMP) for dinner tickets.

January 10, 2005- A

presentation on building a Regenerative Super Heterodyne Radio Receiver.

February 14, 2005- Annual

Club Auction

March 14, 2005- TBA

If anyone has any suggestions for future meeting topics please see the Vice-President, Anthony Burokas (KB3DVS).

COMMITTEE REPORTS-

Polish American Festival-

Club members that work at the festival were invited to a Thank You dinner. Several members attended.

Membership- Mark

(WA3QVU) announced that the club now has a new 6 meter repeater and he would like to see a net conducted one night a week on the frequency.

As away of generating interest in young people to join amateur radio, Steve Larson(WW3Y) has been very active with the Boy Scouts. Steve has set-up an HF radio station at the Boy Scout camp so the scouts

can earn a Radio Merit Badge. Steve is looking for volunteers to help out on Saturdays from 9am to 3pm at the camp station.

PUBLIC SERVICE-

George(N3HBT) thanked everyone that helped out at the three events during the month of October.

Thanksgiving Day- A 5k run in Newtown, Pa that benefits local charities. The event takes place from 8 to 11:30am. See Doc Witticar (W3GAD) for sign-up. Doc needs at least 12 radio operators.

OLD BUSINESS-

The club has purchased a new HF radio- a Kenwood TS750. One of the reasons for selecting this particular model is; it is easy to learn how to use. The radio will be used at the club station, for Field Day and the Grange Fair Special event station. The money used to purchase the new radio comes from the insurance settlement. As a reminder, the club station is open to all members and guests every Tuesday evening from 7:30 to 9pm. See George(N3HBT) if interested.

NEW BUSINESS-

George(KA3WXV) announced that No-Code Tech Classes will be held again starting in March. George also took an informal poll to see how many are interested in taking classes for General Class and/or Extra Class study.

The President asked if any club members would be interested in hearing a lecture on Internet-Linked Radio. He would like to form an exploratory committee to investigate the subject matter.

Bill (K3ZMA) announced that the ARRL will be conducting a Frequency Measuring Test on November 17 (November 18 0245 UTC) on 80, 40 and 20 meters. For those that participate and submit your results, the ARRL will give you a certificate.

Burt(N3YVH) announced he has a sample demo speaker for club members to try. The speaker is called

(Continued on page 3)

(Continued from page 2)

Sweet Sound and is available for members to use for a one-month trial period

The President received an e-mail requested any information on a local ham/formal ham by the name of Margaret Fischer. If any knows of such a person, please contact Tony (N3YNH).

GOOD and WELFARE-

None

The President adjourned the business portion of the meeting at 8:10pm.

Refreshments

50/50

Club member Jack Jones(N3NTD) was presented with a 50 year ARRL continuous membership plaque by the ARRL Eastern PA section manager, Eric Olena(WB3FBL). Jack then gave a talk on his 50 plus year history as an amateur radio operator. Eric enlightened the group with updates from the ARRL.

MEETING INFO - ANTHONY BUOKAS, VP

Future Meetings:
 December - Holiday Dinner
 January - Receiver Design
 Lou Poli, N3OL
 February - Club Auction

PUBLIC SERVICE

November 25
 The annual Thanksgiving run in Newtown. We will need 20 operators to help out and are looking for 2 strong bicyclists to do lead duty for the 5 miles.

Contact me on 147.09, 145.33, e-mail or 215-968-6397 (my home).

73
 Doc, W3GAD

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

Attention all former WARC members. At the March 4, 1999 General Meeting, revisions to our club's constitution were approved that among other things, establishes a new Alumni membership category for former WARC members who are unable to attend meeting and Club activities on a regular basis due to health considerations or travel impediments. Dues for the Alumni membership were established at \$8.00 annually to cover the costs of printing and mailing our monthly FEEDBACK newsletter. Contact Alumni Coordinator Randy Gehman (N3LJE) or Membership co-chair Bud Bechtel (K3TPM) or Membership co-chair Mark Hinkel (WA3QVU) for more information.

FOR SALE

Radio Tubes -- Any tube \$2.00 (except the 6BG6 and 6BQ6, they're \$5.00)
 Checked with my Hickok model 800 tester -- All Good Tubes

-- Locktal Type --
 Philco 7H7

-- Octal Type --
 GE 6BG6
 RCA 6BQ6 GT
 Sylvania 5V4 ST
 Silvertone 6H6
 CBS 6J7 Metal
 RCA 6K6 (2 available)
 GE, Silvertone, RCA 6K6 (no box, all three test good)
 Raytheon 6SG7 Metal (2 available)
 Hallicrafters 6SG7 Metal (2 available)
 Magnavox 6SG7 Metal

CBS 6SK7 GT
 RCA 6SK7
 Tung Sol 6SK7

Please contact Mark Hinkel (WA3QVU) 215-659-4449
 E-mail: <mrhinkel@ix.netcom.com>

WANTED

Bill, K3ZMA, would like to borrow the following books: ARRL Antenna Book / CD, the 20th Edition or later and the ARRL Antenna Compendiums #3 and #5. Bill can be contacted at 215-822-0749 or by email at k3zma@k3dn.org , thanks

SOLAR UPDATE

Propagation maven Tad "Don't Let The Sun Catch You Crying" Cook, K7RA, Seattle, Washington, reports: This was a wild week for propagation, fraught with radio blackouts, 6 meter auroral propagation, wild solar wind and severe geomagnetic storms. The prediction for the next few days is for continuing auroral displays and geomagnetic storms, but the storms should subside. These geomagnetic storms accompanied unstable and often unusable conditions on HF but produced interesting and exciting propagation on VHF.

This week's average daily planetary A index (indicating geomagnetic instability) was up by nearly 70 points to 77.6, and the mid-latitude A index increased more than 36 points to 41.9. Average daily sunspot numbers and solar flux declined. Our reporting week runs from Thursday through Wednesday.

Predicted planetary A index for November 12 is 100, dropping off to 30 on November 13 and 10 on November 14. A possible geomagnetic storm is predicted for November 12 because of a coronal mass ejection (CME) blown into space November 10. But this blast is not aimed at Earth, so its effect will not be as strong as if the CME were

(Continued on page 4)

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squarely in the middle of the solar disk.

Predicted solar flux, which averaged below 130 this week, is expected to decline over the next few days but then rise again, with predicted flux values of 90, 85, 85, 90, 100 and 105 for November 12-17. Solar flux and associated sunspot numbers for the short term are expected to peak sometime around November 23-24.

Sunspot numbers for October 28 through November 3 were 150, 130, 153, 163, 144, 110 and 123 with a mean of 139. The 10.7 cm flux was 133.4, 128.8, 136.4, 139.2, 135.5, 133.1 and 135.9, with a mean of 134.6. Estimated planetary A indices were 3, 7, 17, 10, 5, 4 and 10, with a mean of 8. Estimated mid-latitude A indices were 2, 6, 10, 7, 4, 2 and 7, with a mean of 5.4.

Sunspot numbers for November 4 through 10 were 135, 83, 106, 94, 93, 90 and 50, with a mean of 93. The 10.7 cm flux was 136, 141.2, 128.8, 129.6, 124.1, 140.9 and 104.6, with a mean of 129.3. Estimated planetary A indices were 7, 4, 3, 39, 189, 120 and 181, with a mean of 77.6. Estimated mid-latitude A indices were 5, 1, 4, 19, 116, 47 and 101, with a mean of 41.9.

Courtesy The ARRL Newsletter

PERMANENT ISS HAM STATION, HUMAN CREWS SHARE FOURTH ANNIVERSARY

Four years ago this week, the Expedition 1 crew arrived aboard the International Space Station, home of the first permanent Amateur Radio station in space. Just weeks earlier, the FCC granted the station's distinctive NA1SS call sign. By the time William Shepherd, KD5GSL, Sergei Krikalev, U5MIR, and Yuri Gidzenko arrived on November 2, 2000, the Phase 1 or "initial station" Amateur Radio on the International Space Station (ARISS) gear was already on board for the crew to install. Crew increments comprised of US astronauts and Russian

cosmonauts have rotated duty tours continuously ever since, and ham radio has played a role in each crew's routine.

"Every challenge for the International Space Station crews, flight control teams and management adds to the knowledge base we need to develop longer spaceflight missions to places like the moon and Mars," said International Space Station Program Manager Bill Gerstenmaier. "The work we're doing on station is directly connected to future exploration missions." ARISS International currently is mulling Amateur Radio's role in NASA's "Moon, Mars and Beyond" initiative.

With NASA's shuttle fleet now grounded, crew increments have shrunk to two people, while duty tours have stretched from four to six months. Despite fewer hands on deck, NASA says the two-person crews sometimes have been able to do more with less--often improvising.

The Expedition 10 crew of Commander Leroy Chiao, KE5BRW, and ISS Flight Engineer Salizhan Sharipov, arrived at the ISS just last month--aboard a Russian Soyuz vehicle, just as the Expedition 1 crew did, although other crews traveled via the shuttle. Over the years, in addition to visiting space shuttle crews, there have even been a couple of paying "space tourists" and other short-term visitors who took advantage of the ARISS gear onboard. More recently, Russian Space Forces Test Cosmonaut Yuri Shargin--who arrived with the Expedition 10 crew--completed two ARISS contacts with school groups in Europe.

The Expedition 10 crew is not expected to begin its own series of school group contacts until the week of November 15 at the earliest. Unscheduled ham radio activity by crew members typically is suspended during crew changeover periods. As of November 4, the NA1SS FM voice repeater remained off and the ARISS Phase 2 equipment was back in packet

mode under the RS0ISS call sign.

This week marked a first when Chiao cast his vote in the November 2 presidential election while orbiting 230 miles above Earth. A law the Texas State Legislature passed in 1997 allows astronauts to vote electronically from space. Chiao submitted his electronic ballot to his county clerk's office via e-mail.

Some statistics: Since the Expedition 1 crew carried out the first successful ARISS school group contact--with Luther Burbank Elementary School near Chicago on December 21, 2000--ISS crews have racked up 150 similar Amateur Radio contacts. Approximately two-thirds of them have been direct, two-meter QSOs, while the rest were carried out via "telebridge" stations, where two-way audio was teleconferenced to the school via an Earth station convenient to QSO NA1SS directly.

The crew holding the record for the most ARISS school group contacts was Expedition 3. Commander Frank Culbertson, KD5OPQ, answered questions via ham radio posed by students at 22 different schools. Culbertson also activated NA1SS during the 2001 Jamboree On The Air (JOTA) scouting event.

NASA recently announced that after an extensive review, it's planning its return-to-flight shuttle mission, STS-114, for a launch window that opens next May. ARISS International Chairman Frank Bauer, KA3HDO, says PCSat 2--an externally mounted

WARC JACKETS, SHIRTS AND HATS

Are available. Delivery within one month of placing order- the more we order, the lower the prices. See Bob (K3SRO) or call him at 215-822-7474 for order forms and cost information.

(Continued from page 4)

ham radio payload--is expected to fly on that shuttle flight, which also will mark the return of three-person ISS crews. "We will also be able to better negotiate the delivery of our computer, which is essential for the SSTV system," Bauer added.

Courtesy The ARRL Newsletter

DIGITAL BROADCAST TROUBLESOME TO SOME, EXPERIMENTAL OPPORTUNITY FOR OTHERS

A digital broadcast signal on 3995 kHz has prompted some members of the amateur community to contact ARRL to say it's QRMing the top 10 kHz of 75 meters and asking what can be done about it. Not much, as it turns out. The signal, from Deutsche Welle in Germany, is legal since radio amateurs share that part of the band with broadcasters in Region 1 (which includes Europe). The international

Radio Regulations do leave the door open to request that the station reduce power or change its antenna pattern, however.

"Digital shortwave will revolutionize cross-border broadcasts and will initiate a worldwide renaissance of radio," Deutsche Welle Director General Erik Bettermann said this month during a panel discussion at Munich Media Days. Deutsche Welle plans to gradually shut down its analog shortwave transmissions, he said, as DRM receivers became more available globally--something not anticipated until late 2005.

Although the station has been broadcasting for some time on the same frequency in conventional AM, it's attracted more notice from hams since July, when it began testing using digital format--also referred to as "DRM," (Digital Radio Mondiale, French for "Digital Radio Worldwide"). Of course, the vagaries of propagation will be a big factor as to the amount of interference US hams

experience at any given time.

Radio amateurs meanwhile have been experimenting with programs such as HamDream <<http://www.qslnet.de/member/hb9tlk/>>, a DRM program adapted for Amateur Radio use by HB9TLK. It enables digital voice and data transmissions using bandwidths on the order of 2.3 to 2.5 kHz.

Courtesy The ARRL Newsletter

AMSAT establishes Echo "Experimenters' Wednesday" suggestion box

AMSAT-NA has set up an e-mail address <ao51-modes@amsat.org> for Echo satellite (AO-51) users to submit suggestions for "Experimenters' Wednesday" operations. AMSAT invites users to let the AO-51 ground control team know which modes they're interested in seeing on the satellite for the weekly experimental period. The FM voice repeater is turned off on Experimenters' Wednesdays. On November 17, Experimenters' Wednesday will feature PSK31 operation. The AMSAT Echo Web page includes the planned monthly Echo schedule and additional information. AO-51 ground controller Mike Kingery, KE4AZN, says he will post details about operating mode, updates to the operating plan and other timely information typically two or three times each week.--AMSAT News Service

Courtesy The ARRL Newsletter

SKYWARN INFORMATION

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

(see Frequency List for a local VHF or UHF repeater)

Bucks County SKYWARN Weather Spotter PRIMARY FREQUENCY: 147.300MHZ (+ 131.8)

Fairless Hills, PA (many remote access locations throughout Bucks County)

SKYWARN URL: <http://www.wx2phi-skywarn.org>

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

2004-2005 Contest Calendar

<u>Month</u>	<u>Contest</u>
December	3 - 5 ARRL 160 Meter Contest 11 - 12 ARRL 10 Meter Contest
January	1 Straight Key Night 22 - 24 ARRL January VHF Sweepstakes
February	19 - 20 ARRL International DX Contest (CW)
March	5 - 6 ARRL International DX Contest (Phone)



➤ CLUB EQUIPMENT

WARC members can borrow club equipment- see the club Vice-President, who is responsible for keeping track of club property. In addition to the normal HAM JUNQUE, we have two ICOM HT's with accessories (one for 2 meters; one for 440mhz) and an ICOM 2 meter all-mode available. WARC policy is to make club equipment available on a three (3) month loan policy to club members. As custodian of club property, you will have to sign a form acknowledging your financial responsibility to WARC in the event the loaned equipment is lost or damaged. DE, Anthony Burokas KB3DVS

ATLANTIC DIV. HAMFESTS - 2004,2005

➤ + *indicates ARRL Hamfest*

28 Nov 2004 + JSARS Tailgate Hamfest Bayville, NJ
 Jersey Shore ARS <http://www.jsars.org>
 30 Jan 2005 + 2005 MMARC Post Holiday Hamfest Odenton, MD
 Maryland Mobileers ARC <http://www.qth.com/mobileers/>
 1 May 2005 + Antietam Radio Association Hagerstown, MD
<http://www.w3cwc.org>
 1 May 2005 + Warminster ARC Wrightstown (Bucks County), PA
<http://www.k3dn.org>

CONVENTIONS and CONFERENCES

73' de Bernie Fuller N3EFN, Director Atlantic Division ARRL

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 2003 test fee is \$12.00.

- ◆ **Warminster Amateur Radio Club**, Monthly, Last Wed. 7:00 pm - Tom Michaud, WA3TQJ, 215-343-3494.
- ◆ **Bellmawr, NJ**, Monthly, 3rd Thursday 6:30 PM Bellmawr Comm. Senior Citizens Center Browning Rd. at Lewis St. Diane Nafis N2LCQ, 856-228-8088.
- ◆ **Levittown, PA**, Monthly, 1st Saturday - George LeNoir, WR3B, 215-943-4886.
- ◆ **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**, NE Philadelphia, Pa. Monthly; 1st Thursday - 6:00pm. Philmont Mobile Radio Club at Space Research Center (SPARC) Northeast High School Cottman and Glendale Aves. (Enter the SPARC wing from Glendale Av., opposite Teesdale St.)- Dusty Rhoads, ND3Q, 215-482-0386 Or 215-879-0505. No exam in July or August.



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 shuttle.

We'll help you learn the theory and practices that make for a most enjoyable hobby. There's no telling just how far you'll go unless you make the first move and give yourself a chance to explore the world.

At The Benjamin Wilson Senior Center
 580 Delmont Avenue, Warminster, PA

For information Email altemus@drs-fsc-comm.com or
 call:215-855-3856 , 6 to 10 pm Ask for George

Area Repeaters

VHF
 145.310 R.F. Hill
 145.350 Doylestown R.C.
 145.250 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
 147.165 Delmont R.C.
 147.270 Frankford
 147.300 BEARS
 147.390 CBRA

220
 224.580 PackRats

UHF
 442.650 DVRA
 443.250 TAG
 443.050 Metro-Comm
 443.950 Warminster
 444.200 BEARS
 449.325 KA3W XV
 447.475 WR3B
 447.625 WE3E
 448.225 Penn Wireless

6 Mtr
 53.030 WA3BXW
 53.230 N3DQZ
 53.370 K3MFI

1296
 1295.000 K3PHL (-20 MHz split)

Goddard ARC

Shuttle Rebroadcast Frequencies

Frequency	Mode	Band
3,860 kHz	(LSB)	80 meters
7,185 kHz	(LSB)	40 meters
14,295 kHz	(USB)	20 meters
21,395 kHz	(USB)	15 meters
28,650 kHz	(USB)	10 meters
147.45 MHz	(FM Simplex)	2 meters

Metro-Link repeater network

29.62	Chester, PA
147.135	Buckshootum, NJ
147.315	Chester, PA
223.96	Millville, NJ
223.98	Ocean city, NJ
224.68	Eagleville, PA
224.96	Chester, PA
443.00	Linwood, PA
443.05	Chester, PA

Net Schedules

Sunday	2100	10 Meter Net	28.440 MHz
Wednesday	2030	2 Meter Net	147.09 Rptr.
Wednesday	2030	Linked w/ 2 Meter Net	443.95 Rptr.
Sunday	2030	Informal Net	223.5 Simplex
Thursday	2000	Bucks Cnty RACES Net	145.35 Rptr.
Thursday	1900	Mont. Cnty RACES Net	146.235 Rptr.

Are you submitting an article for the Feedback ?

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

- Submit in IBM format on a floppy disk.
- Or via 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 Thursday after the Club meeting.
- Volunteers are needed for folding at the Board Meeting, Ben Wilson Center, last Thursday of the month, 7:30 PM.

Bucks Bagels
1179 York road (RT. 263)
Warminster, PA
674-1400

"Home of the fresh, not frozen dough"

The annual dues rate structure is as follows:

Full Member: \$ 20.00
2nd Family Member: \$ 10.00
Student: \$ 10.00
Alumni: \$ 8.00
12th grade or under: \$ 5.00

- Are your dues current ?
- Check the date on your Feedback mailing label.

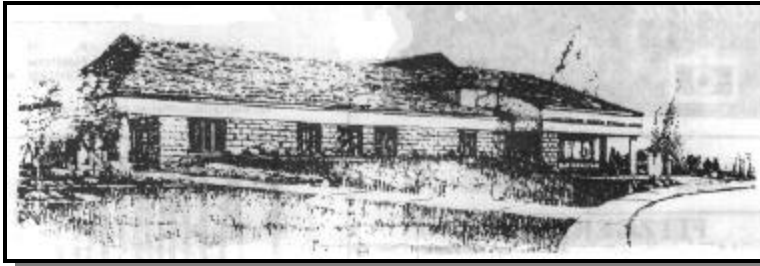
2004 Officers

Executive Officers

President	Tony Simek	N3YNH	674-5218
Vice-President	Anthony Burokas	KB3DVS	632-3283
Secretary	Dan Myers	KB3IBQ	957-2343
Treasurer	Burt Ludin	N3YVH	441-4483
Director (E)	Tom Michaud	WA3TQJ	343-3494
Director (E)	George Brechmann	N3HBT	443-5656
Director (A)	Al Konschak	WI3Z	491-9941
Director (A)	Hugh Hart	N3SOQ	773-8451
Past President	Mark Kempisty	N3GNW	953-1493

Committee Chairpersons

Feedback Editor	Jim Elmore	WA4YWM	538-1889
Membership co-Chair	Bud Bechtel	K3TPM	659-9093
Membership co-Chair	Mark Hinkel	WA3QVU	6594449
Field Day '05	Doc Whitticar	W3GAD	968-0641
Field Day '05 co-chair	Stu Simon	K2QBU	345-9295
Grange Fair '05	Doug Crompton	WA3DSP	431-6307
Hamfest '05	Bill Strunk	K3ZMA	822-0749
January '05 VHF Contest	Joe Bagnick	N3EMA	997-2539
PA QSO Party '04	Mark Kempisty	N3GNW	953-1493
Archives	Frank O'Neill	N3UQP	699-9549
Alumni Coordinator	Randy Gehman	N3LJE	822-9473
ARRL Liaison	Kristina Pistilli	KB3ECW	572-5330
Awards Mgr.	Vince Pironti	KD3TC	674-0446
Classes	George Altemus	KA3WXV	855-3856
DXpedition	Doc Whitticar	W3GAD	968-0641
Special Interest Groups	Ron Wenig	NY3J	638-9257
CW/QRP co-chair	Marty Squicciarini	NR3Z	393-1492
Digital/APRS co-chair	Ron Wenig	NY3J	638-9257
FM/Repeater co-chair	Mark Hinkel	WA3QVU	659-4449
Satellite co-chair	Joe Bagnick	N3EMA	997-2539
VHF/UHF/MW co-chair	Al Sheppard	N3ITT	610-847-5490
Emergency Coordinator	Stu Simon	K2QBU	345-9295
Fundraising	Erik D'Onofrio	N3YNX	675-9165
Hamwear	Bob Wilderman	K3SRO	822-7474
Holiday Dinner co-chair	Berni Lindinger	N3RJD	343-5249
Holiday Dinner co-chair	Doug Mahoney	N3RJE	343-5249
Interference	Tom Michaud	WA3TQJ	343-3494
Net Manager	George Brechmann	N3HBT	443-5656
Notary Public	Whitey Metzger	AA3FT	947-0843
Publicity	Alan Ash	KA3YCG	357-9286
RACES Liaison	Bob Phillips	KA3VKU	766-0456
Refreshments	Randy Gehman	N3LJE	822-9473
Refreshments	Doc Morein	KA3RAU	542-0593
Repeater Coordinator	Brian Taylor	N3EXA	257-6303
SKYWARN Liaison	Mike Patton	W3MJP	491-9665
Station Trustee	George Brechmann	N3HBT	443-5656
Sunshine Club	Vince Pironti	KD3TC	674-0446
Township Liaison	George Brechmann	N3HBT	443-5656
VE License Testing	Tom Michaud	WA3TQJ	343-3494
WEB Site Coordinator	Al Konschak	WI3Z	491-9941
Youth Programs Co-Chair	Al Folsom	KY3T	343-8851
Youth Programs Co-Chair	Steve Larson	WW3Y	822-1511

Club Station**Meetings****Talk To Us**

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 second Monday 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.

APRS on 144.390

K3DN is also operating APRS on 144.390

Internet Connection

For general club correspondence:
k3dn@k3dn.org

For Feedback articles:

wa4ywm@comcast.net

Visit our Home Page on the WWW:

<http://www.k3dn.org>

Federal Communications

Commission

1270 Fairfield Road
Gettysburg, PA 17325

License Information

800-322-1117 - M-F 0800-1630

Fax-On-Demand 202-418-0177

FEEDBACK

Warminster Amateur Radio Club
Box 113
Warminster, Pa 18974

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