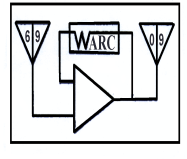




FEEDBACK



Warminster Amateur Radio Club

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

January 2003

Next Meeting January 2nd - Rescheduled Holiday Dinner

President's Message



Normally the first WARC newsletter of the year lets me look forward to the club's upcoming events and say thank-you to all for the enjoyable holiday dinner. However, this year I have to do it a little differently as Mother Nature decided to remind us that she can dump a lot of snow on us in short order! The early morning commute on our December meeting day found the going difficult and the later commute found it even worse. That coupled with an increase in forecast snow accumulation led the Board to decide it was safer for the membership if we postpone our dinner until the January meeting.

Therefore we will have our annual Holiday Dinner on January 2nd at the Senior Center. This is a classic event where members and their families have a chance to get together to enjoy each others company. We conduct very little club business at the dinner though it is an official club meeting. The one important thing I want to remind all of you is that the dinner starts an hour early at 6:30 PM so we do not make it too late of an evening for everybody. The club also has the tradition of collecting non-perishable food items or personal toiletries for donation to a local food bank. I would like to thank Burt Ludin N3YVH who takes a little of his time to deliver the collected items.

January is also our annual election for the two of our Directors. Both George Brechmann N3HBT and Burt Ludin N3YVH have volunteered to run again. The ballots can be found elsewhere in this issue of Feedback and will be available at the Holiday

January Special Events

Nazareth, PA: Christmas City ARC and Delaware-Lehigh ARC, WX3MAS. 1400Z **Dec 14-0200Z Dec 16.** Season's Greetings from the Twin Christmas Cities. 28.465 14.265 7.270 3.970. Certificate. CCARC/DLARC WX3MAS, Greystone Building, Gracedale Complex, RR 8, Nazareth, PA 18064-9211.

Atkinson, NH: Atkinson Amateur Radio Club, K1D. 0500Z **Dec 21-0459Z Jan 4.** Celebrating Kid's Day and Amateur Radio Awareness. 28.380 21.380 14.270 7.230. Certificate. Peter Schipelliti, W1DAD, 7 Dearborn Ridge Rd, Atkinson, NH 03811.

Wall Township, NJ: Ocean Monmouth ARC, N2MO. 1600Z **Jan 11-0000Z Jan 12.** To commemorate "Project Diana," the first ever successful moon bounce experiment from the historic Diana site. Gen and Nov/Tech subbands 80, 40, 20, 15 and 10 m. QSL. OMARC Inc, PO Box 267, Oakhurst, NJ 07755.<http://www.qsl.net/n2mo>.

Eastham, Cape Cod, MA: Marconi Radio Club and Marconi Cape Cod Memorial Radio Club, KM1CC. 0001Z **Jan 11-2359Z Jan 19.** Marconi 100th Anniversary-Transatlantic Wireless. 21.039 14.039 21.360 14.260. QSL. Ranger Barbara Dougan, KB1GSO, Cape Cod National Seashore, 99 Marconi Site Rd, Wellfleet, MA 02667. personal.tmlp.com/k1vv/w1aa/w1aa_1001.htm.

US Air Force Academy, CO: Pikes Peak Radio Amateur Association, W0F. 0000Z **Jan 25-1900Z Jan 27.** Scout Winter Campout--FREEZOREE. 28.390 21.360 18.140 14.290. Certificate. Mike Anderson, WV7T, 4117 Bent Dr, Colorado Springs, CO 80909.

San Diego, CA: Challenger Middle School ARC, K16YG. 1400Z-2100Z **Jan 28.** In remembrance-17th year after the *Challenger* tragedy. 28.350 21.335 14.275. QSL. Challenger MS ARC, 10810 Parkdale Ave, San Diego, CA 92126.

Courtesy The ARRL Newsletter

GET THE FEEDBACK ELECTRONICALLY AND SAVE THE CLUB MONEY!

The current costs of mailing a Feedback including the recent postage increase is \$8.04/year/member. That's \$804/year of savings if 100 members elected to receive Feedback electronically. See Bud, K3TPM to remove you from the mailing list. You can then access the Feedback from the WARC website.

Dinner. Write-in candidates are also accepted on the ballots.

February is the club's annual auction night. And that means its time to go through your accumulated stuff and see what you would like to donate to the club for the auction. Also, its not too early to start thinking about WARC's annual hamfest on May 5th. If you know of any vendors or tail-gaters who might be interested in marketing their wares there, please let them know. Flyers are available from Bill Strunk K3ZMA.

(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)

Finally, we have another exciting year before us. WARC is very lucky with its membership base and level of volunteerism. I want to thank all of you who take a little of your time to participate in the various club event's. If you know any other amateur radio operators who might also enjoy being a member of the club, your more than welcome to invite them to a meeting.

Until our next meeting,

73's,
Mark Kempisty - N3GNW
President
Warminster Amateur Radio Club

POSTPONED HOLIDAY DINNER!

The holiday dinner that was going to be held at the December meeting is now scheduled for the January 2 meeting. The dinner will be at 6:30 pm and all those members who have paid in advance will be honored. Those members who have requested reservations, but have not yet paid, can pay at the door the night of the dinner. If anyone would still like to come and has not yet sent in their reservations, can call George N3HBT at (215)-443-5656 and pay at the door.

Meeting Info – Tony Simek, VP

January 03

The January meeting is our annual Holiday Dinner postponed from December due to inclement weather.

February 03

Club Auction Tom Michaud, Master of Ceremonies

March 03

ARRL Night

April 03

QRP Radio Carter Craigie

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.

CLASSES

General license Classes, January 13, 2003 7:30 PM – 9:00

No-Code Tech Classes, (entry level license) March 10, 2003 7:30 PM – 9:00

At the Benjamin Wilson Senior Center
580 Delmount Avenue,
Warminster, Pa.

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

SOLAR UPDATE

Sun seeker Tad "I'll Follow the Sun"
Cook, K7VVV, Seattle,
Washington, reports: This week

conditions improved for HF, with slightly lower geomagnetic indices (daily average planetary A index down from 13.6 to 9.7) with solar flux and sunspot numbers up. Average daily sunspot numbers were up nearly 16 points, and average solar flux was up by nearly 8 points.

Conditions look good for the ARRL 10-Meter Contest this weekend with moderate geomagnetic conditions and a rising solar flux. Predicted solar flux values for Friday through Monday are 155, 160, 165 and 170.

Right now the days are very short, and they will keep getting shorter for the next week. Long nights are good for 40-meter propagation, but the higher frequencies close early. The winter solstice will come to North America on December 21, and after that we can watch the slow progression toward springtime propagation.

Sunspot numbers for December 5 through 11 were 153, 112, 106, 150, 189, 142, and 171, with a mean of 146.1. 10.7 cm flux was 148.7, 148.2, 151.1, 154.4, 156.3, 161.4, and 152.3, with a mean of 153.2. Estimated planetary A indices were 9, 10, 16, 12, 8, 7, and 6, with a mean of 9.7.

Courtesy The ARRL Newsletter

ROCK STAR GIVES MAJOR DONATION TO "THE BIG PROJECT"

Hoping that his donation will spur others to contribute to "The Big Project," veteran rock star and well-known amateur Joe Walsh, WB6ACU, has given in a major way to ARRL's Education and Technology Fund. ARRL Chief Development Officer Mary Hobart, K1MMH, says the "significant gift" through the Joseph F. Walsh Foundation will fund an additional eight pilot schools in the ARRL Education and Technology Program.

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ARRL President Jim Haynie, W5JBP, expressed his gratitude for Walsh's dedication and support to The Big Project's goals and aims. "I am particularly pleased with Joe's donation, as it emphasizes his belief in our school project and more importantly, investing in the future of Amateur Radio," Haynie said. "The additional schools that will be brought into the program as a result of this donation represent a big step in increasing the number of students participating in the ARRL Science and Technology program."

Walsh, best-known as a guitarist, vocalist and songwriter with The Eagles and The James Gang, has been an active Amateur Radio operator for more than 37 years. He's also an avid collector of Collins Radio gear. The amount of his donation was not made public.

The Big Project--as the program is popularly known--highlights Amateur Radio as a significant resource for teachers in classrooms as well as for enrichment and after-school programs. The 40 pilot schools now in the program receive a complete Amateur Radio station, technical library and a curriculum that makes technology fun and relevant for the participating students.

Walsh's contribution was one of 3500 made by ARRL members, who together have raised more \$225,000 to fund the Education & Technology Program in 2003.

Courtesy The ARRL Newsletter

CURRICULUM REVIEW IS NEXT ON "THE BIG PROJECT" AGENDA

With the addition of 14 new schools--13 pilot schools and one progress grant school--in December, the ARRL Education and Technology Program--"The Big Project"--is up to a total of 41 participating schools. That's more than double the number of schools involved since the program's launch in February.

Early in 2003, the 13 pilot schools will

be receiving complete Amateur Radio station equipment, a curriculum and a technical library, said ARRL Education and Technology Program coordinator Jerry Hill, KH6HU. The 14th school, which already uses Amateur Radio in the classroom, will receive a \$500 progress grant.

More than new schools is being added to the Education and Technology Program. Hill said that as the program nears its first full year in existence, an evaluation of the curriculum is now under way.

"We have a new draft of the curriculum, and we'll be testing it in all of the schools, asking them to add their lessons and activities and report back in June," Hill said. "Then we'll get a new one out for September and post it on the Web. The new curriculum will be out there for anyone to use." Hill says he does not expect Web posting until late next year, however.

Hill said that The Big Project will update the curriculum yearly, so the program can offer teachers and students a continually improved program. One of the first major efforts will be to split the text of the curriculum into two parts--elementary and secondary. That way, Hill said, the program can offer developmentally appropriate levels of instruction while still teaching similar concepts to all participants.

The program's first pilot school was DeGolyer Elementary School in Dallas, Texas. DeGolyer, which tested the program beginning in 2001, got major-market media exposure December 9 when its activities were featured in a Dallas Morning News article. Under the direction of teacher Sanlyn Kent, KD5LXO--who was not a ham when she began working with the youngsters at DeGolyer--the program has turned out 30 new young hams in fewer than two years.

Courtesy The ARRL Newsletter

AMATEURS RESPOND TO CAROLINA ICE STORM

Accompanied by the worst power outages since Hurricane Hugo in 1989, a severe snow-turned-ice storm swept along through the Carolinas early on December 5, prompting area Amateur Radio operators into action to aid their neighbors during the emergency.

"Sleet and snow began falling across the state the afternoon and evening of December 4, but overnight it turned to freezing rain," said ARRL North Carolina Section Public Information Coordinator Gary Pearce, KN4AQ. "SKYWARN nets operated overnight across the state, providing the National Weather Service with updated information on changing ground conditions."

More than 1.5 million customers in the Carolinas were left without power for much of the rest of the week and weekend. Power was not expected to be restored to many residents until after the this week. North Carolina Gov Mike Easley declared a state of emergency in the Tar Heel State. Four deaths in North Carolina were blamed on the storm; eight others died in Arkansas and Kentucky.

With a half-inch of ice coating practically everything, widespread power outages, tree-blocked roads and temperatures uncharacteristically in the 20s, a number of North Carolina ARES groups activated, and hams provided support at numerous shelters across the state. ARES in Guilford County supported four shelters, the Red Cross and the county's Emergency Operations Center (EOC). Alamance County hams provided damage assessments to county emergency management teams, Wake County ARES supported four shelters, ARES in Gaston County was at two shelters and the county EOC, Harnett County hams helped at five shelters and amateurs in Nash County provided almost all communications from the town of Rocky Mount,

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according to Pearce.

While a statewide ARES net was not activated December 5, the North Carolina state EOC in Raleigh was staffed with hams helping to pass traffic between there, county EOCs and the state's 25 open shelters.

The Tarheel Net--the statewide ARES Net--operated throughout the day December 7, while operators from many of the affected counties maintained watch, but no requests were received for ham radio assistance. ARES EC Liaison for North Carolina Emergency Management John Guerriero, KG4HDT, demonstrated the HF and VHF Amateur Radio operation to the National Guard coordinator at the EOC.

Over the weekend, Alamance County ARES operators also assisted with communications among the state EOC, the Red Cross and shelters. During a visit to the Alamance County EOC, Gov Easley thanked the volunteers and workers for their exceptional effort.

Hams also were able to help in other ways, Pearce pointed out. "In the Raleigh-Durham area, there were long lines at the few grocery stores and gas stations that were able to open," he said. "Many repeaters remained on the air with emergency power, and hams passed tips on where to find open stores, gas, batteries and other Supplies." All ARES activity secured December 10.

Courtesy The ARRL Newsletter

NEW SATELLITE

RS-20 is newest Russian Amateur Radio satellite payload: On November 28, the Russian Space Agency launched the Algerian AlSat-1 satellite along with a new Russian bird known as Mozhayets--a navigational and scientific satellite. One of its experimental payloads is an Amateur Radio telemetry beacon that has been christened RS-20. Mozhayets orbits at

an altitude of 720 km, completing a turn around Earth every 99 minutes. The Keplerian elements for RS-20 are: 1 27560U 02054B 02332.86497891 -.00019965 00000-0 -47472-2 0 37; 2 27560 98.2411 217.5728 0044302 75.5447 285.0613 14.53325574 86. RS-20 is transmitting CW telemetry on 145.818 and 435.319 MHz. According to information provided by Alexander Zaitzev, RW3DZ, each telemetry frame begins and ends with the beacon call sign, RS-20. E-mail reports are welcomed at plis@kaluga.ru.

Courtesy The ARRL Newsletter

FIRST AMATEUR TRANSATLANTIC HF DIGITAL VOICE QSO REPORTED

Radio communication pioneers Ten-Tec and Thales have announced that they've used an Amateur Radio linkup to span the Atlantic on HF digital voice for the first time. Ten-Tec's Doug Smith, KF6DX, and Thales' Didier Chulot, F5MJN, successfully transmitted and received HF digital speech signals November 22 between Paris, France, and Ten-Tec's Sevierville, Tennessee, headquarters.

"We view this as a significant accomplishment," said Smith. "Amateur Radio has long been at the forefront of technological development. It's nice to be able to show that our legacy is alive and well." Tests are being conducted under the auspices of ARRL's Digital Voice Working Group, which Smith chairs. A written report on the tests is due in January.

Calling it "a major breakthrough," a Ten-Tec news release said the two amateur stations "demonstrated the advantages of digital audio during the conversation, including noise-free, FM-like reception and the potential for simultaneous voice and data." The feat was accomplished on 15 meters using Ten-Tec transceivers and Thales Communications Skywave 2000 digital audio software.

Operating as F8KGG, Chulot spoke with Smith for several minutes over the HF digital link, operating within a 3-kHz bandwidth. Smith said he and F5MJN used unmodified Ten-Tec transceivers in upper-sideband mode, although AM or FM mode also would work. No additional hardware was required beyond the cables connecting the transceiver and the microphone to the PC sound card. Smith said audio quality was roughly the same as a conventional telephone circuit. An Amateur Radio version of the Thales system is expected to appear on the market early next year. "At this stage, the system is experimental-only for ham radio, but it looks like it's going to take off," Smith predicted.

In terms of Amateur Radio, Alinco was the first manufacturer to come out with a digital voice option for some of its transceivers. ICOM debuted its D-Star digital "concept radio" system last May at the Dayton Hamvention--where Smith chaired the Digital Voice Forum--and demonstrated it at the ARRL-TAPR Digital Communications Conference in September. The unit, which operates on 1.2 GHz, was scheduled to hit the ham radio market this fall.

Technical details of the Thales system will appear in an article "International Digital Audio Broadcasting Standards: Voice Coding and Amateur Radio Applications" in the January/

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)

February issue of QEX, which he edits. The article is available on the ARRL Web site <<http://www.arrl.org/tis/info/pdf/x0301049.pdf>>. He also has authored two articles on digital voice in QST: "Digital Voice: The Next New Mode?" <<http://www.arrl.org/tis/info/pdf/0201028.pdf>> in the January 2002 issue, and "Digital Voice: An Update and Forecast" <<http://www.arrl.org/tis/info/pdf/0202038.pdf>> in the February 2002 issue.

Additional images and background are available on the TAPR Web site <<http://www.tapr.org>>. Look for the Digital Voice Forum page and the presentation by Cédric Demeure.-- Ten-Tec news release; Doug Smith, KF6DX

Courtesy The ARRL Newsletter

ALL-HAM, ALL-MALE CREW SETTLES IN ONBOARD INTERNATIONAL SPACE STATION

With this week's departure of the space shuttle Endeavour from the International Space Station, one all-ham crew has replaced another onboard the ISS. This time around, however, no female voices will grace the amateur airwaves between the space outpost and Earth. The new crew is entirely male. The crew change also marks the first time since Expedition 3 that a US astronaut will serve as crew commander.

The Expedition 6 crew--Commander Ken Bowersox, KD5JBP; Flight

Engineer Nikolai Budarin, RV3FB, and NASA ISS Science Officer Don Pettit, KD5MDT--lifted off November 23 on its four-month scientific mission. The team replaces the all-amateur Expedition 5 crew of Commander Valery Korzun, RK3FZ; Sergei Treschev, RK3FU, and Peggy Whitson, KC5ZTD. The Expedition 6 team is the third all-ham crew to serve aboard the ISS.

In space since June 5, Whitson, Korzun and Treschev ended up staying in space a bit longer than they'd expected. The launch of the Endeavour and the new ISS crew was delayed--first by an onboard oxygen leak and later by weather problems in possible emergency landing zones. Subsequently, inclement weather on Earth frustrated the Endeavour's efforts to return home. By week's end it appeared they might not be back home until December 6 or 7. The shuttle launch was the last one for the year 2002. In addition to the replacement crew, it also carried a truss segment for the ISS.

The next scheduled Amateur Radio on the International Space Station (ARISS) school contact is December 16 with students at Adler Planetarium and Astronomy Museum in Chicago. A light ARISS school contact schedule is planned over the next three weeks or so, however, as the crew settles in and takes care of initial duties, including a spacewalk this month by Bowersox and Budarin.

ARISS <<http://ariss.gsfc.nasa.gov>> is an international project with US

participation by NASA, ARRL and AMSAT.

Courtesy The ARRL Newsletter

Phil-Mont Annual Ham Radio "Auction-Fest"

To provide an opportunity for ham-related equipment sales in mid-winter when hamfests in this part of the country are few and far between, the Phil-Mont Mobile Radio Club, Inc., will sponsor its seventh annual "Auction-Fest" on Wednesday evening, January 8, 2003. At these fun events, a lot of ham gear and ham-related computer equipment changes hands -- at favorable prices.

All are invited to attend this winter's event to be held at Phil-Mont's new meeting location, the Masonic Home of Pennsylvania, 801 Ridge Pike, Lafayette Hill, PA, just outside the city limits. There is no admission fee, and the meeting begins at 7:00 p.m. with free refreshments. Sellers (only) pay a \$2 sellers fee, plus a commission to the club of 10% of the item's sale price, up to a maximum of \$30. The seller may specify a minimum acceptable bid on each item. Come one and all! It's great fun...and a good mid-winter opportunity to trade some of that "surplus gear." Many thanks, and 73,

Richard Moll, W3RM

➤ 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, Mark Kempisty, N3GNW

2003 Contest Calendar

| <u>Month</u> | <u>Contest</u> |
|-----------------|--|
| January | 1 Straight Key Night 4 - 5 ARRL RTTY Round-Up 18 - 20 ARRL January VHF Sweepstakes |
| February | 15 - 16 ARRL International DX Contest (CW) |
| March | 1 - 2 ARRL International DX Contest (Phone) |
| June | 14 - 16 ARRL June VHF QSO Party |



ATLANTIC DIVISION HAMFESTS - 2003

➤ + *indicates ARRL Hamfest*

8 Jan 2003 x Ham Radio Auction-Fest Phil-Mont Mobile Radio Club
<http://www.phil-mont.org> Philadelphia, PA

CONVENTIONS and CONFERENCES

29-30 Mar 2003 * Maryland State Convention Baltimore ARC
<http://www.gbhc.org> Timonium, MD

25-27 Apr 2003 * SETI League Technical Symposium
 The SETI League Trenton, NJ
<http://www.setileague.org/seticon>

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 - Bill Helmatag - 609-546-7710.
- ◆ **Levittown, PA**, Monthly, 1st Saturday - George LeNoir, WR3B, 215-943-4886.
- ◆ **Telford, PA**, Monthly, 3rd Monday - Joe Burgess, W3PNL, 215-723-6697.
- ◆ **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.

General license Classes, January 13, 2003 7:30 PM – 9:00
 No-Code Tech Classes, (entry level license) March 10, 2003 7:30 PM – 9:00
 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 |
| 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 |
| 145.330 | Hilltown |
| 220 | |
| 224.580 | PackRats |
| UHF | |
| 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 | |
| 1294.000 | K3PHL (-20 MHz split) |
| 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@comcat.com
- 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.

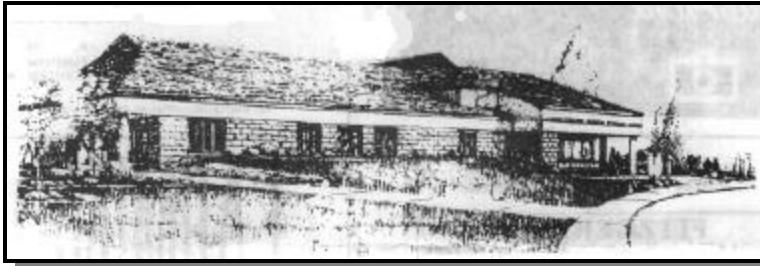
2003 Officers

Executive Officers

| | | | |
|----------------|------------------|--------|----------|
| President | Mark Kempisty | N3GNW | 953-1493 |
| Vice-President | Tony Simek | N3YNH | 674-5218 |
| Secretary | Dave Porter | AA3UR | 579-0597 |
| Treasurer | Vahan Shahinian | KB3DHU | 442-1243 |
| Director (E) | Burt Ludin | N3YVH | 441-4483 |
| Director (E) | George Brechmann | N3HBT | 443-5656 |
| Director (A) | Al Konschak | WI3Z | 491-9941 |
| Director (A) | Hugh Hart | N3SOQ | 773-8451 |
| Past President | Rocky Pistilli | N3FKR | 572-5330 |

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 '03 | Doc Whitticar | W3GAD | 968-0641 |
| Field Day '03 co-chair | Stu Simon | K2QBU | 345-9295 |
| Grange Fair '03 | Frank O'Neill | N3UQP | 699-9549 |
| Grange Fair '03 co-chair | Doug Crompton | WA3DSP | |
| Hamfest '03 | Bill Strunk | K3ZMA | 822-0749 |
| January '03 VHF Contest | Joe Bagnick | N3EMA | 997-2539 |
| PA QSO Party '03 | Jack Jones | W3NTD | |
| Picnic '03 | Mark Kempisty | N3GNW | 953-1493 |
| Adopt-A-Highway | Hugh Hart | N3SOQ | 773-8451 |
| Archives | Frank O'Neill | N3UQP | 699-9549 |
| Alumni Coordinator | Randy Gehman | N3LJE | 822-9473 |
| ARES Liaison | Mike Patton | W3MJP | 491-9665 |
| 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 |
| HF co-chair | Dennis Shegda | N3KRE | 657-7283 |
| 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 | |
| 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 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.

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@comcat.com

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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