



December 2007

The HARC Spark

The Official Newsletter of the
Holmesburg Amateur Radio Club
P.O. Box 6253 Philadelphia, PA 19136
WM3PEN 146.685 Mhz Repeater PL 146.2
{K3FI} CLUB CALLS {WM3PEN}



Celebrating Over 30 years of Serving the Philadelphia Area
Web Site <http://www.harcnet.org> WM3PEN@ARRL.NET

Next Meeting
Thursday, January 24 8 PM
8th District Police Station
Red Lion & Academy Rds

Weather Hampers Parade - Holiday Season Ushered in.

The Sunday before Thanksgiving was cold and wet, yet members of the Holmesburg Amateur Radio Club were ready to help Santa usher in the holiday season. With the weather being in question during the late morning hours, a final decision wasn't made to postpone the parade until after 10 AM. This is first time the parade has been postponed in the 15 years the Club has been supporting the parade.

The decision turned out to be a good one as it rained all afternoon. Club members returned the Sunday after Thanksgiving to start the Holiday season. This time the parade was held. It was a shorter parade since many of the marching groups were not available for the Thanksgiving weekend. In addition there was no reviewing stand for the rain date so the Club did not have to get the correct order of march to the end of the parade.

Bob, WA3PZO, and Rich, AB3EO, attend the parade organizing meetings. As HARC webmaster, Rich has supported the parade by posting the order of march on the Club website and providing a card sorting application to provide the reviewing stand with the exact order of march.

With the bad weather this year, the Club website became particularly important as members of the community looked to the website for updated information. In fact the website traffic increased by 4 times over a routine day.

Parade Director Gary Cozens said, "I received many compliments on the website being available. We definitely have to develop the site for future use with search engines directing the inquiries into your site. Great Job HAMS!Tell the radio shackers thanks and hope all enjoy the upcoming holiday season." For making the website available, the Club received a \$150 donation.

Participating in the parade were: Dave, KB3AKK; Dave, N3VOU; Mike, N3LXN; Jon, NY3Z; Sol, N3UBY; Carl, N3ZZK; Sal, W3WHK; Joe, KB3OYF; Tom, KB3PNM; Charlye, K3CJ; Rich, AB3EO and Bob, WA3PZO. Also thanks to Geri, Beth, and Sandy.
(See pictures pg 7)

Informal Dinner Gathering - December 13th

Each December the HARC Board of Directors meet for dinner instead of having a regular board meeting. This year the Board would like to open up dinner to all HARC members. The dinner will be held Thursday, December 13th, 6:30 PM at the Club House Diner, 2495 Street Road just west of Knights Rd. www.clubhousediner.com. If you are interested in attending contact Club President Mike Wurgley, N3LXN at mwurg@comcast.net.

Delaware Valley FM Sprint Saturday, March 1st, 2008

Purpose:

- To promote FM Simplex operation.
- To provide a local, fun, fast contest with equipment most hams already have.

When:

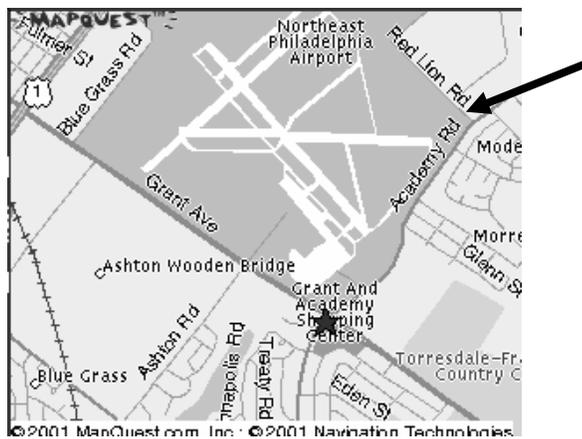
Saturday, March 1st, 2008 7:00 PM to 11:00 PM EST
The contest is open to all radio amateurs.

According to HARC President Mike Wurgley, N3LXN, the contest is designed for hams to have fun over a short period during that quite time of the year. You don't need to devote an entire weekend, just an enjoyable Saturday night. The contest allows hams to meet their neighbors on the air as well as give many the opportunity to experience something else besides repeater contacts.

The contest gives individuals as well as clubs to participate in the event. Bonus points are being allowed for contacting club stations/callsigns. "We realize that everyone will not be able to contact WM3PEN so we're giving clubs a chance to put their club callsign on the air." This could be from a club station or an individual's home. There is no advanced registration for Club callsigns with the sponsoring group. This will allow many clubs to make a last minute decision to make their voice heard in the area. (Cont. pg 4)

HARC Board of Directors

President - Mike Wurgley, N3LXN
Treasurer - Bob Josuweit, WA3PZO
Membership - Charley Johnson, K3CJ
Technical - Ron Cardullo, K3RJC
Member-at-Large - Sol Volen, N3UBY
Webmaster - Rich Shivers, AB3EO
UPARC Rep - Mike Feeley, KB3NDC
Newsletter Editor - Bob Josuweit, WA3PZO
WM3PEN @ AOL.COM
H.A.R.C. Monthly Meetings - The Board of Directors meets on the 2nd Thursday @ 7:30 PM. General meetings are held the 4th. Thursday @8:00 PM. 8th District Police Station, Red Lion & Academy Rd. Phila PA



H.A.R.C maintains the 146.685 repeater located @ Univ. of PA., Phila PA with inputs in Abington, N.E. Phila, and Cherry Hill, NJ; More Club Information & Member Applications can be had by contacting any of the Directors via E-mail. WM3PEN@arrl.org, the web page <http://www.harcnet.org> or writing to HARC PO Box 6253, Philadelphia, PA 19136.

FCC RULES Reference

Check out the ARRL Web site

<http://www.arrl.org/FandES/field/regulations/news/part97/>

HARC Bulletin Schedule

Bulletin Station K3CJ

Wed 2000L Amateur Radio News Line
ARRL Audio News
The RAIN Report
Contests / Special Events / Hamfests
Sun 1000L This Week In Amateur Radio
Gate Way 160
Handy Hams
Contests / Special Events / Hamfests

Newsline and the ARRL Audio News are available locally by dialing (215) 624-0672 and follow the prompts.

PHILA ARES INFORMATION

All amateurs interested in participating should check into the Phila ARES Net, Sunday's at 9:00 PM, hosted on the Phil-Mont Repeater System; 147.030 MHz (+offset 91.5 PL) ;444.80 MHz (+offset 186.2 PL) When control operators are available, Echolink node 29742, WU3I-L, is on the repeater. Backup link is KB3IV-L.
All interested amateurs are welcomed and encouraged to check in for more information. There is always a different topic of interest to the amateur community discussed with an informal round table of comments and suggestions.

Look forward to having all check in on Sunday nights @ 9:00 pm. See web site for more information.

- Visit the Philadelphia ARES web site
<http://www.harcnet.org/aresindex.html>



VE SESSIONS

PhilMont Mobile Radio Club has moved it's testing from Northeast High School to Ambler, PA on the 4th Thursday of every month.

Exams are given at Ambler Ambulance Association, 1414 E. Butler Pike in Ambler, PA. Registration begins at 7pm.
Warminster - last Wednesday of each month. Contact Tom Michaud (WA3TQJ) at (215) 343-3494 (7-9PM)
Bryn Mawr - quarterly on a Saturday. Contact Bob Lees, W3ZQN, rjlees@aol.com



Grow Your Club With New Hams

By Norm Fusaro, W3IZ

One of the most frequently asked questions that we hear from ARRL affiliated clubs is "How can we increase membership in our club?" On the surface the solution is a simple one - make more hams. A foundation of active Amateur Radio operators is required in order to maintain a healthy Amateur Radio club. If you lack a sufficient pool of licensed hams in your area then create some. Clubs that conduct licensing classes where they make recruitment part of the lesson continually increase membership. It does not matter if the course is an eight week program or a weekend crash course, a good instructor will pepper the syllabus with the advantages of membership in the local club and the Radio Amateur's national association -- ARRL.

Providing a license course for those people in the community who are interested in learning about Amateur Radio demonstrates the club's commitment to helping people. Reinforcing Amateur Radio's tradition of helping each other let's the new hams know that they are not just getting a license to operate a radio but that they are also earning a ticket to become part of a worldwide society whose existence is built on mutual contact. Whether on the air or in the community Amateur Radio has always been a two-way function.

From the moment the license class begins new hams need to know that your club is there to help them as they begin their Amateur Radio journey. This relationship begins not in the classroom but at the time of registration or when that first contact is made whether in person or on the telephone or through the internet.

As the class progresses the new ham is made aware of the reciprocal bond between hams and while the novice may not believe that he or she has something to offer at the moment, their attendance and a desire to belong is sufficient contribution. As long as the club maintains a friendly environment that encourages participation and supports activities the novice will soon become the Elmer to the next group of new hams and will eventually take on leadership positions in the club. However, a club is destined to fade away if they choose to adopt the attitude "build it and they will come."

Be sure to invite the new licensees to your next club meeting. Using written invitations is a nice touch and sends a message that you really want them to attend. The focus of this meeting should be on your new hams and getting them into the mainstream. Several clubs have organized the meeting following a license class using the "Ham Radio 101" format where the entire evening's programming is to show the novices the basics of operating. Have refreshments on hand and be ready to talk about the fun activities such as Field Day or a community activity that your club is involved in. This is not the meeting where want

to discuss politics or topics that will embattle the membership. Keep it light and focused on the needs of the newcomers.

New hams are thirsty for information no matter how basic. When and where are the club meetings held? How do I get on the air? What does this or that term mean? Be prepared to answer the simplest questions and provide details when you do. The Mt. Baker club in Bellingham Washington has developed a great handout for new hams that helps answer some of these questions. With Mt. Baker's permission ARRL has made this booklet available to download and customize for your use. The modified version provides a place for your club to insert club and local information. < <http://www.arrl.org/news/features/2005/03/06/1/MBARC-Info-Pack.pdf>> Use this brochure or develop one of your own but in any case be sure to give your new hams something informative to take home with them.

A closing thought when working with new hams, one person's favorite activity is not all that ham radio has to offer. Meeting programs and mentor sessions should stimulate new hams to explore the many options offered to the licensed radio amateur. Organizing and teaching an Amateur Radio license class where the students are encouraged to be a part of the fabric of ham radio and invited to participate in club activities is guaranteed to increase your club's membership with active hams. (Credit: The ARRL CLUB NEWS and The ARRL). The author is a former HARC member.

WA3PZO Authors Cover Story for the December Issue of Conformity Magazine

Bob, WA3PZO, examines recent developments of Broadband Over Powerlines. Is it an Alternative path to the Internet or is it trouble on the horizon?

Conformity reports on current regulatory and design information in the field of electrical engineering. Since 1996, electrical engineering professionals turn to *Conformity* to stay informed on current trends and developments in worldwide regulatory compliance issues.

The article on page 12 can be read at:
<http://www.nxtbook.com/nxtbooks/conformity/1207>.

WA3PZO is the Public Service Editor for *CQ* Amateur Radio Magazine. He has also written for *CQ VHF*, *Popular Communications*, *9-1-1 Magazine*, *Homeland Protection Professional*, and *HRS*, publish by the Croatian Amateur Radio Association.



(cont. from pg 1) Rules

Frequencies:

Limited to the FM simplex frequencies on the following bands.

2 Meter, 220 band, 440 band

No contacts are permitted on the calling frequencies.

Classes;

- Base
- Rover
- Portable - Limited to 10W, with transceiver mounted antenna

Exchange:

Call sign, your sequential contact number, ZIP code

Note: You should not use a separate set of sequential numbers for each band. Start at the beginning of the contest and keep going in order.

Sample contact exchanges

K3FI this is WM3PEN - Please copy Number 3, zip 19136

K3FI this is WM3PEN Rover - Please copy Number 3, zip now 19136

K3FI this is WM3PEN Portable - Please copy Number 3, zip now 19136

Scoring:

1 point per contact

1 point bonus for each club station contact

Multiplier is the number of unique ZIP's contacted

For Rovers/Portables, multiplier is the number of unique ZIP's contacted plus the number of ZIP's activated.

Final score = multiplier times contact points.

Awards will be issued to individual top scores in all classes.

Club station awards will also be issued in the base class.

Log:

Heading: Your name, address, call sign, & contest class

Listing of contacts to include;

Your contact number, call sign, zip, their contact number, indication if you contacted a club station

Please group your contacts per band

For rovers and portables, your zip at time of contact.

Entry Deadline

All logs, either paper or electronic should be received by April 1, 2008.

Logs may be sent to the Holmesburg Amateur Radio Club, PO Box 6253, Philadelphia, PA 19136 or emailed to AB3EO@ARRL.NET.

Special Rules:

- Stations can only be worked once per band. Rovers and portables can be worked again when they have moved to a different ZIP.
- Rovers and portables cannot straddle ZIP code lines, only one ZIP may be given during each contact. Rover and portable stations must remain in a ZIP a minimum of 15 minutes.
- Teams are permitted, but only one transmitter is allowed to operate at any one time.
- No contacts on calling frequencies. 146.52, 223.5, 446.00
- Only mode allowed is FM phone simplex.
- No repeater contacts, satellite, or EME, please stay on FM simplex frequencies.
- No crossband, no split frequencies contacts.

Pre-arranging contacts by use of repeaters, telephones, or otherwise is not allowed, nor in the spirit of the contest. Requesting a move to another band during a contact is allowed.

Some additional considerations

Safety Issues

- Rover and portable operations need some discretion. Sitting in a parked car talking on the radio invites suspicion. Walking around with a HT even more so. We suggest these participants be team efforts. Carrying your license would not be a bad idea.
- Rovers, unless you have a partner in the vehicle, please don't work the contest unless you are parked. Trying to log stations while you are driving is a bad idea.

It would be helpful if club stations let us know in advance so we could publish their calls and make scoring easier.

For further information contact AB3EO@ARRL.NET

HARC Field Day Results

K3FI operated in the 3A group during Field Day.

Nationally K3FI placed 211/284

In the Atlantic Division 19/29

In Eastern Pennsylvania 6/7

Combining all categories together:

Nationally 1125/2334

In the Atlantic Division 113/216

In Eastern Pennsylvania 35/58

Contact!

The man about whom the story is about is Philip Velders, Sr. His amateur radio call sign is W4AIG. Phil has been involved with amateur radio all of his life as his father was. Phil is also a Navy veteran and is a Volunteer at Bay Pines Veteran's Hospital, St. Petersburg, FL where he is well liked and well known. He still resides at his home in Holiday, FL. HAM Don is KG4COQ. We can be found on QRZ.com if you look up our call signs.

Sincerely,
Suzanne A. Mackin, KI4OEB

A HAM FOR CHRISTMAS

The week of Christmas 2003 I had the bright idea to ask my husband, Dick, if he would buy me a radio scanner so I could listen for traffic and weather news on it, especially during our hurricane season. I had not seen a scanner before Dick gave me mine and didn't know what they were all about until I read the instruction booklet that came with it. I soon realized that I was embarking on learning a new type of language and skill to use it. After trying to figure it out for a few days, by Christmas day I finally understood how to PAUSE a frequency from continual scanning.

Of the different BANDS the scanner has, I had the HAM radio BAND on when I turned the scanner on Christmas morning. I heard some amateur radio operators (HAMs) talking and immediately pushed the PAUSE button on. I listened. The conversation over the airwaves became interesting and was festive for the holiday. A HAM named Phil identified himself as W4AIG over his radio. He was acknowledged by fellow HAMs talking in the group. From their ensuing conversation with Phil, I was to learn that if at all possible, HAMs help out other HAMs in need.

"Uncle Phil", as they referred to him, was indeed a HAM in need. He stated that he had been waiting nearly two hours for a transfer bus to take him home. He was in Tarpon Springs, Florida, in Pinellas County and his home was in the bordering Pasco County.

Someone asked why he was there? Uncle Phil explained he just got out of the hospital after having back surgery and his son was supposed to pick him up and take him home. He said "My son didn't show up so I decided to take the bus home."

I turned the volume up on my scanner so Dick could also hear this conversation. The other HAMs perked up their ears hearing this information. Their comments and questions to come were serious and yet humorous. To me, the conversation progressed to down right wacky.

HAM Richard quickly looked up the Pasco bus schedule on his computer then came back over his radio to inform Phil that the buses in Pasco county were not running on this Christmas day because of the holiday. Phil responded

laughing that he wondered why a couple of buses had passed him by. The question now was how was he going to get home?

Phil stated that he was in a wheel chair and that he would just ride on the Pinellas Trail and go on up U.S. HWY 19 (an unlimited open access highway) to his house. "It's only about three miles away" he said. The talking HAMs thought this was preposterous. Listening, so did Dick and I.

Feeling confident and having his hand-held radio with him, Uncle Phil set out on his journey despite the protests to stay put until the HAMs might be able to find someone to pick him up. Talking along the way over his radio, Phil tried to assure the HAMs about his whereabouts and welfare. We followed the conversation and knew his location as Phil rolled himself in his wheel chair along his way.

Phil departed from the bus stop at the corner of U.S. HWY 19 and Tarpon Avenue and crossed HWY 19 eastward on the Pinellas Trail. "Now I'm going up a small hill so I'll be off of the radio for a little while", he informed.

HAM chatter...

Some long minutes later we heard "Okay, I made it up the hill" he said, puffing. "I'm going to take a short rest here because it looks like I'm about to go down a hill next." HAM Richard jokingly asked Uncle Phil if there were any brakes on that wheel chair of his? Phil replied with a laugh "No". A frenzy of HAM chatter...

HAM Don began to plead "If anyone out there hearing this conversation and is located nearby Uncle Phil's location, would they please, please pick up Uncle Phil and give him a ride home", adding, "He's a good friend of mine and I want him to be safe!" The talking HAMs one by one all stated they lived too far away from where Phil was in order to be able to get to him in time, considering if he was still moving along alright. "Okay, I'm starting down the hill now" Phil announced. More frenzied HAM chatter...

Dick and I looked at each other with concern. Dick said to me "I know exactly where he is and I'm going to go get him and take him home". With that said, he left.

From what we were aware of from the conversation, we lived nearest to Phil's location than the talking HAMs, about fifteen minutes away. Leaving the radio scanner with me at home, I listened closely to make sure Dick found Phil. It seemed like a very long, exaggerated wait for me as I watched the clock. I began to wonder how does a person without a radio get in touch with an amateur radio operator to let them know help is on the way? "I'm at the bottom of the hill now and am going to take another rest. I'm okay" Phil said, panting. Concerned, anxious HAM chatter...

After his rest Phil turned his wheel chair around and began pushing himself backward with his feet because his arms were tiring. He was moving slowly now. Dick drove past Phil, not seeing him at first. He went up to the county line a

short distance away from Phil's location. While there, he noticed that Phil was going to run out of sidewalk at the line and would then actually be riding on HWY 19, a dangerous trek but especially in a wheel chair. After turning the car around, on his way Dick spotted a man in a wheel chair still on the sidewalk and traveling backward slowly. That has to be Phil, he thought. He found a spot to quickly park the car then started walking toward Phil calling out his name.

Phil, watching this stranger purposefully coming toward him, began to push himself faster with his feet away from Dick. While doing so, he announced over his radio to his fellow HAMs that there was a man coming toward him and didn't understand why the man seemed to be calling to him. HAM Don suggested that maybe someone heard about his situation and was coming to help. I knew they were talking about Dick. I was smiling. Then I began laughing. I imagined Uncle Phil's reaction to Dick. It's Christmas day, he's in a vulnerable situation and a complete stranger is walking toward him who knows his name.

As Dick got closer to Phil, he called out to him saying "Phil, I'm here to help you", explaining "my wife just got a radio scanner for Christmas and heard you needed a ride home." "I'm alright," Phil asserted, "I don't have that much further to go." Dick patiently explained to him that he was about to run out of sidewalk at the county line shortly and how perilous it would become for him in the wheel chair. Phil argued back that he could just walk and push the wheel chair. Dick was not about to allow him to do such a thing. With more patience, Dick finally convinced Phil to let him take him home. Besides, Phil was feeling a little worn out now so he relented and accepted the ride.

In the car, Phil came over the radio informing the HAMs that he had a ride home. He said "It's being given to me because the nice man's wife just got a scanner for Christmas and heard I needed help." HAM chatter of relief... "Merry Christmas!" they said.

As a footnote, Phil's son was at the hospital to pick him up. It was a matter of miscommunication that they missed one another.

A few months later during the course of this emerging friendship between Uncle Phil and us, we discovered in one of our conversations that Uncle Phil and Dick were acquainted with each other in the early 1960's while they both lived and worked in Tarpon Springs, Florida. Currently, we have a strongly bonded friendship together.

Dick and I met some of the amateur radio operators involved in this conversation and other HAMs through Phil soon after this event happened. They all encouraged me to study and get my Technician's license. I passed the test and on March 16, 2006 I was issued a Technician license by the FCC. My call sign is KI4OEB and I am truly enjoying the amateur radio hobby. In case of disaster and if all other forms of communication are down, I am prepared because I am a HAM.

From Contact! December, 2007 - a publication of the ARRL.

Scholarships Available

THE FOUNDATION FOR AMATEUR RADIO, INC., a non-profit organization with headquarters in Washington, D.C., plans to administer fifty-five (55) scholarships for the academic year 2008 - 2009 to assist licensed Radio Amateurs. The Foundation, composed of over seventy-five local area Amateur Radio Clubs, fully funds three of these scholarships. Eleven are funded with the income from grants. The remaining forty-one (41) are administered by the Foundation without cost to the various donors.

Licensed Radio Amateurs may compete for these awards if they plan to pursue a full-time course of studies beyond high school and are enrolled in or have been accepted for enrollment at an accredited university, college or technical school. The awards range from \$500 to \$3000 with preference given in some cases to residents of specified geographical areas or the pursuit of certain study programs. Non-USA residents are eligible to apply for some of the scholarships. Clubs, especially those in **California, Delaware, Maryland, Ohio, Pennsylvania, Texas, Virginia and Wisconsin** (areas of preferred residence for some of the scholarships), are encouraged to announce these opportunities at their meetings, in their club newsletters, during training classes, on their nets and on their world wide web home pages.

Additional information and an application form may be requested by letter or QSL card, postmarked prior to March 30, 2008 from: FAR Scholarships, Post Office Box 831, Riverdale, MD 20738

Applications are also available for download from the Foundation's web site <http://www.amateurradio-far.org/>.

The Foundation for Amateur Radio, incorporated in the District of Columbia, is an exempt organization under Section 501(C)(3) of the Internal Revenue Code of 1954. It is devoted exclusively to promoting the interests of Amateur Radio and those scientific, literary and educational pursuits that advance the purposes of the Amateur Radio Service.

Antenna Book - online

Hi, here is a book about antennas. At the end of the online book, You can download a pdf version of this antenna book. <http://www.hamuniverse.com/n4jaantennabook.html>

Understanding Antennas For The Non-Technical Ham, A Book By Jim Abercrombie, N4JA
(Jim Abercrombie n4ja@prtcnet.com) Edited for the web , N4UJW

Here are some of the main topics in the book that you will learn more about.

Antenna systems, antennas, simple antenna formulas, basic antenna theory, feed-lines, matching units, how antennas work, polarization of electromagnetic waves, frequency, the ionosphere and modes of propagation, Ground-Wave Propagation, Direct Wave or Line of Sight Propagation, Propagation by Refraction,

Skywave Propagation, Greyline Propagation, Long Path Propagation, ham bands propagation, antenna myths, standing wave ratio, real antenna systems, Flat Top Dipole, Inverted-V Dipole, Dipole Shape Variations, Calculating the Length of a Half-Wave Resonant Dipole, The Decibel, Resistances and Reactance, Feeding Dipoles Efficiently,

Cause of Feed-Line Radiation, Baluns, Other types of dipoles, Shortened Loaded Dipole,

All Band Dipoles, Sloping Dipole, Folded Dipole, Double Bazooka Dipole, Broad-Banded Coax-Fed Fan Dipole, Two-Element Collinear Dipole, Four-Element Collinear Dipole, Coax-Fed Dipoles Operated on Odd Harmonic Frequencies, Three Half-wave Dipole, All Band Random Length Dipole, All Band Center-Fed Random Length Dipole,

A Two-Band Fan Dipole, Trapped Dipole for 75 and 40 Meters, The Extended Double Zepp Dipole, The G5RV Dipole, Off-Center Fed Dipoles, One wavelength Off-Center Fed Dipole, Carolina Windom, Windom Dipole (Fritzel Type), End-Fed Antennas, End-Fed Zepp, Alternate Method of Feeding an End-Fed Zepp, End-Fed Random Length Antenna, The Half-Sloper antenna, Vertical antennas, Ground Mounted Trapped Verticals, Disadvantages of Using Quarter-Wave Verticals, Long and Short Verticals,

Unscientific Observations of Verticals, The Inverted-L Vertical , Vertical Mobile Antennas, HF mobile antenna comparisons, One wave-length single loop antennas, Horizontally Oriented Loop, Vertically Oriented Single Loop for 40 and 80 Meters,

Single-Element Vertical Delta Loop, Directional beam antennas, Monoband Yagi, Three-Element Yagi, Trapped Multi-band Yagis, SteppIR Antenna, The Log-Periodic Array,

Directional Cubical Quad and Delta Loop Antennas, Single Band Cubical Quad, field-strength meter, The Quagi, Gain vs front to back ratio, Feed lines, Antenna Safety,

Erecting Antennas on Masts, Tower Safety, Quarter Wave Matching Sections of 70-ohm Coax chart, and much more!



HARC members provided communications for the Mayfair Holmesburg Holiday Parade. Photos courtesy (T-C) N3LXN, and (B) WA3PZO



HOLMESBURG AMATEUR RADIO CLUB
P.O. Box 6253 Philadelphia, PA 19136
"Serving the Community Through Ham Radio"

Next Meeting: Thursday January 24, 2007.
8PM @ 8th District - Red Lion & Academy Rds.



HOLMESBURG AMATEUR RADIO CLUB MEMBERSHIP FORM

HARC, PO BOX 6253, PHILADELPHIA, PA 19136
<http://www.harcnet.org>
WM3PEN/K3FI



All members in good standing are eligible to vote and hold a board office. Dues are \$20.00/year.
Make checks payable to H.A.R.C. and mail to PO BOX 6253, Philadelphia, PA 19136.

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