



With Nary a Hitch!

After all these months of planning and preparation, almost hard to believe it's all over, isn't it?

Members of the Wireless Association burst onto the bands during the 2006 Pennsylvania QSO Party, activating the N3SH club call as the Special Event Stations for this year's contest. Ultimately operating Seven counties from a total of Nine fixed locations, plus a mobile activating a bunch more counties, the club was well represented and afforded us all proud.

Months of discussion, planning, and effort caused the bulk of the operation to come off without a hitch. There were, as always, some difficulties — a rig failure at N3SH Allegheny CW, a software problem at N3SH Allegheny SSB, the usual missing connector or cable here and there, and so on — but nothing to stop the planned operations from proceeding as scheduled.

What did not cooperate was the bands. Propagation on the contest weekend was, well, strange. Ten meters never seemed to open. Fifteen and Twenty were both open to the West Coast, but little heard from the Pacific. Forty was unusually long early in the day throughout the weekend, and whatever caused this also caused 80 and 75 to open up early and open longer early. But again, nothing that stopped the operations in their tracks!

If there was any one disappointment, it was the low level of activity seen by many on the digital modes (RTTY and PSK-31) that were introduced this year. Considering that this was a controversial change in many quarters, a change that caused many long-time contest ops to swear off the activity this year, that may not be surprising. The appearance of an RTTY contest late Saturday evening may have had an effect too. But word is that the modes are probably here to stay, so we can only hope that now that the ice is broken, activity will pick up in subsequent contests.

Results from the N3SH stations are still being tabulated. Further reporting from the stations is expected next month, but you'll find inside early indications and pictures from many of the stations.

Randy N3ZK and Terry KB3MSG have designed a SQL database on the club web site which will permit those who worked N3SH to see if they are in the log, once all of the logs are turned in. Try it out — it looks great! And if you'd like a commemorative certificate, it can be ordered on the spot right from the site.

A great job done by all. Take a bow! You deserve it!

— 73, Ron Notarius W3WN, N3SH Special Event Station Coordinator

WASH Christmas / Holiday Party
Friday, December 15th
James Centre, West End
Directions at www.jamescentre.com

Next Meeting: November 9th, 2006

The next monthly meeting of the WIRELESS ASSOCIATION OF SOUTH HILLS, INC. will be Thursday, November 9th, at the Peters Township Library, 616 East McMurray Road, McMurray, starting at 7:00 PM.

Election Night for 2007 Officers will be the main topic of the evening, along with Pa QSO Party wrap up, the 2 Meter Contest, & the Christmas/Holiday party.

Talk-in on the 146.955(-) N3RNX/R and 443.650(+) KB3FZU/R Repeaters (131.8 PL). All members, guests and interested parties invited!

Presidential Words

Although I never experienced being on the business end of a pile-up like I thought I would, I still had a great time at the Fayette County outpost of N3SH. N3SH put its mark on the PA-QSO party by using the tag team approach of having 2 or 3 bonus stations on the same frequency and giving contacts instantly 400 or 600 points. One gentleman said after the various exchanges that he felt like he hit the jackpot. I want to thank Ron Notarius for organizing the N3SH club effort. His experience really showed and we all look good because of it. Also a tip of the hat to all of the team captains for seeing to the many details that insured a fine effort. And finally thanks to all WASH members who participated and kept the stations on the air.



Now we have other things to look forward to as our year winds down. First is the election of new officers for 2007. It there is one meeting to be sure not to miss it is this meeting. It's important to show enthusiasm and encouragement to the 2007 club officers whoever they may be. Randy George, N3ZK is so far our only candidate nominated for President. For Vice President/Secretary we have two candidates nominated, Larry Comden, K3VX and Frank Bobro, KB3FZU. While these are all fine candidates we will still entertain more motions from the floor before conducting elections. Good luck to all. Regardless of the outcome, I know WASH will be in good hands.

(Presidential Words Continued on page 8)

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WASH FM Net
9:00 PM ET
Sunday Nights
on the 146.955
and 443.650
Repeaters

NCS Schedule
Listed On Page 3

Want to volunteer to be a
Net Control Station?
Please contact FM Net
Manager Kevin N3HKQ
for more information.

**LOOKING
AHEAD:**

- ARRL 160 Meter Contest December 1— 3
- ARRL 10 Meter Contest December 9 - 10
- WASH Annual Christmas / Holiday Party, December 15, St. James Centre — See Club News on Page 3 for more details
- Straight Key Night Dec 31
- 7th Annual WASH 2 Meter Simplex Contest January 13
- WPRC Meeting January 21st, Butler PA
- WASHFest 2007 February 25

November 2006

Sun	Mon	Tue	Wed	Thu	Fri	Sat
<p>Complete Monthly WPA Club Calendar Now Available On-Line at www.n3sh.org</p>			1	2	3	4 NDMS Drill Sweepstakes CW
5 WACOM Hamfest Sweepstakes CW	6	7	8	9 WASH Meeting	10	11
12	13	14	15	16	17	18 Sweepstakes SSB
19 Sweepstakes SSB	20	21	22	23	24	25 WASH Breakfast CQ WW CW
26 CQ WW SSB	27 Funds for WASH Christmas / Holiday Party due to Carol KB3GMN	28	29	30 Amateur Radio classes start at the Allegheny County EOC, 7—9 PM, through January 4 th		

WASH 2006 OFFICERS

THE LEGAL STUFF

EXECUTIVE COMMITTEE:

President	Kevin Smith N3HKQ
VP / Secretary	Paul Lusardi NØVLR
VP / Treasurer	Mark Stabryla N3RDV

AND WE COULDN'T DO IT WITHOUT:

N3SH / WA3SH Trustee	Steve Lane W3SRL
NP2SH Trustee	Paul Jordan NP2JF
N3SH / WA3SH / NP2SH QSL Manager	Ed Oelschlager N3ZNI
VE Team Liaison	Jacqué Gosselin N3ZEL
Webmaster	Randy George N3ZK
Quartermaster	Harold Rosenberger K3HCR
WASH FM Net Manager	Kevin Smith N3HKQ
WASHFest 2007 Committee	Steve Lane W3SRL, Chairman Carol Danko KB3GMN Bill Hill W3WH Kevin Smith N3HKQ
Activities & Operating Events	Larry Comden K3VX Ted Huf W4ZE
Ways & Means	Carol Danko KB3GMN
Mobile Tower Project	Paul Lusardi NØVLR Randy George N3ZK
Pa QSO Party SES Coordinator	Ron Notarius W3WN

CLUB-AFFILIATED REPEATERS & BEACONS:

Mt. Lebanon	N3RN/R	146.955 MHz (-)	PL 131.8
Mt. Lebanon	W3SRL/R	442.550 MHz (+)	PL 131.8
Canonsburg	KB3FZU/R	Echo Link #26861 (courtesy W3SRL)	443.650 MHz (+)
St. Johns, VI	NP2SH/B	28.276 MHz	PL 131.8

N3SH/WA3SH WASHNet, the weekly on-air net of WASH, meets every Sunday Night, 9:00 PM ET, on the 146.955 & 443.650 repeaters. All radio amateurs, WASH members or not, are welcome to join in!

"The WASHRag™" (formerly **"The Mariner™"**) is the Official Newsletter of the **WIRELESS ASSOCIATION OF SOUTH HILLS, INC. (WASH)**
Published Monthly with occasional Special Editions as warranted.
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Editor & Publisher: Ron Notarius W3WN
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The **WIRELESS ASSOCIATION OF SOUTH HILLS, INC.** was founded on August 23rd, 1993, as the original **SOUTH HILLS AMATEUR RADIO CLUB**, and operated under that name through 1998. WASH was also known briefly in late 1998 as the **N3SH AMATEUR RADIO CLUB**. It is not in any way affiliated with the "South Hills Amateur Radio Club, Inc." and is not responsible for that group, it's members, or it's actions in any way, shape, or form.
As always, special thanks to the owners of both the N3RN/R Repeater System and the KB3FZU/R Repeater System for permitting the **WIRELESS ASSOCIATION OF SOUTH HILLS, INC.** and it's members to use their repeaters for club purposes. Special thanks also to our webmaster, Bob Sanford AA3FI, and to Shawn Djernes NØPEU for providing space on-line for back issues of **"The WASHRag™"** which can be found at www.washarc.org or www.djernes.org/washrag

WASH Amateur Radio Club News Briefs

Next WASH VE Test January 18th

The Next WASH VE exam sessions will be Thursday, October 19th, 2006, 6:30 PM, at the **Peters Township Library**, 616 East McMurray Road, McMurray, PA. Talk-in on the 146.955 MHz and 443.650 MHz repeaters. All examiners are ARRL VEC affiliated.

Walk-ins are always welcome, but if you plan on attending the test session, please contact VE Team Liason Jacqué Gosselin N3ZEL:

Telephone (724) 746-9235 or E-Mail: n3zel@fyi.net

Please bring the following to your test session:

- Picture ID or other suitable identification (2 forms of ID required)
- Pen / Pencil / Calculator
- Original FCC license plus a copy of license (if upgrading)
- Original CSCE plus a copy of CSCE (if upgrading)
- Check or Cash in the amount of **\$14.00** (payable to: ARRL VEC)

Future test dates:
(tentative) Thursday, April 19th, 2007
Thursday, July 19th, 2007
Thursday, October 18th, 2007
Thursday, January 17th, 2008

The Saturday in October brings many things... the preparations for Halloween celebrations and parades, the CQ WW DX Contest on SSB, and naturally the monthly gathering of the awake and hungry, i.e. **the WASH Breakfast Gang at The Beach House** in Finleyville. This month's crew included KB3NAF, N3DFK, K3VX, W3VFA, K3HCR, W3LE, KB3FNM & Mary Lou, N3HKQ & Peg, W3WH and W3WN.

Topics of the morning included Pa QSO Party memories (imagine that!), snow in CO, antennas, the future of 35 mm film photography, LCD monitors, computer gremlins, bankrupt auto companies, retirement, GAP vs. Butternut verticals, Invisible Fence, heading up to Lake Michigan, wedding & hotel rooms with the in-laws, and a whole bunch more from the other half of the table that wasn't overheard!



There's always plenty of room at the table (and if there isn't, we just drag over another one!), and the coffee is hot and plentiful. So why not stop by and join in the Thanksgiving recovery this month? The next club breakfast will be on Saturday, November 25th, 8:00 AM at **The Beach House**, Library Road / Route 88 in Finleyville, just south of Trax Farms and adjacent to Mineral Beach. See you there!

Congratulations are in order to the following:

- Bob KB3MQC, who has passed his Amateur Extra Class license and is now AB3ED.
- USC HS teacher Pat Palazzolo ex-KA3WZP (the ARISS special event) who was re-licensed last spring as KB3NMS!
- WPA DXCC Card Checker and New member Mike K3AIR on passing the bar as of this October! (And don't worry about offending him, he collects lawyer jokes!)

The WASH Annual Christmas / Holiday Party will be held at the **James Centre**, 327 South Main Street, Temperanceville in the West End on Friday, December 15th, starting at 6:30 PM and food served at 7 PM. As you know, this is Frank N3XI's place. The directions are on the web site, www.jamescentre.com.

The cost for this affair is \$20.00 dollars a person. The price for children is the same. The Menu will be: Stuffed Chicken Breast; Beef Burgundy tips over rice; Penne with Marinara sauce; Cod with buttered bread crumbs; rice; steamed mix veggies; garden salad; rolls, coffee and tea. The cash bar is as follows: Soda \$1.00, Beer & Wine \$3.00, Mixed Drinks \$4.00.

We have 29 signed up to date. If you plan to attend this social event, please let me know ASAP. I also will need the money by November 27th for those who said they would come. Please confirm your reservation, or join us, by calling Carol at (412) 884-1466 or emailing n3sbf@libcom.com. Thanks again for all your patience! — Carol KB3GMN

Reminder! Pa QSO Party Logs & summary sheets are due November 15th to the Nittany ARC, POB 614, State College, PA 16804-0614

Scores from the N3SH stations are scheduled for next month's issue. Frank KB3FZU has most of the logs and is compiling them so that N3ZNI can handle the QSL cards, and N3ZK and W3WN can process certificate requests. Please note that the N3SH Clarion logs are currently on Bob W3RJM's laptop, and we are waiting for them to be turned in to us for the final tallies.

October 19th VE Test Results

At the VE session on October 19th, we had one candidate who showed up promptly at 6:30 p.m., passed his Technician exam, and headed home. Understandable as the gentleman was from Weirton, WV and it was a dark and rainy night.

Congratulations to Malcolm McKenna, newly licensed as KD8EME.

Thanks to the VEs who showed up to help:

- Bill KB3LIX
- Ed N3ZNI
- Frank KB3FZU.

— 73, Jacqué Gosselin N3ZEL

The monthly listing of WPA Clubs, VE Tests, and related activities has been moved to the club web site at www.n3sh.org, as it is easier to keep it up to date, and more room is available. Should we return this info to the newsletter? Should we use a different calendar style? Should we drop the calendar altogether? Make your thoughts known; send and email to editor@n3sh.org

And... yes, members in good standing can now have **your call at n3sh dot org** as an email address. Want to know how? Contact our webmaster, Randy N3ZK, for more information. Caution! He's worked very hard on the web site and he wants you to use it!

Breakfast Gang Photo (in upper right column) courtesy of and ©Copyright 2006 Hank Marzina KB3FNM

WASHNet 2006 NCS Schedule

11/05	Dave N3DFK	12/10	Michael KB3HFP
11/12	Bill W3WH	12/17	Hank KB3FNM
11/19	Kevin N3HKQ	12/24	Paul NØVLR
11/26	Harold K3HCR	12/31	Frank KB3FZU
12/03	Carol KB3GMN	Alternates	— Dave N3IDH
	or Richey N3SBF		— Ron WN3VAW

40 meters without time-signal station CHU Canada? It could happen on 1 April 2007, according to an announcement on the CHU frequencies. CHU may QSY from 7335 KHz, re-license the station as a broadcaster in order to continue using that frequency, or discontinue their 41 meter band transmitter altogether. CHU first went on the air as 3AF in 1922, and has held the CHU call since 1938

Join WASH or Renew your Membership for 2006 Today! Membership Application on Page 9!

Minutes, October 12th Meeting

Larry Comden K3VX, Acting Secretary, **WASH**

Called to order at 7:00 PM by Kevin Smith N3HKQ

Moment of silence for recently departed silent keys.

Introductions (special "howdy!" to Dave Wagner K3LGM)

Committee Reports

Treasurer – Mark Stabryla, N3RDV – Read and Accepted

Secretary – Paul NØVLR in absentia (en-route to MA) – None

Tower Trailer committee report - Randy N3ZK

- Review of **WASH** financial history – N3HKQ; Kevin concluded that it is Not prudent to use general funds to support tower trailer fund – **WASHFest** loss possible
- Recap of \$\$ raised to date by Randy N3ZK. Thanks to additional contributions and fund raising, and a price reduction from Tashjian Towers, goal for Phase I (tower purchase) has been met with no additional funds from the club treasury. Motion to purchase tower by Ted W4ZE, second by Frank KB3FZU, carried unanimously
- Jim WB4GCS asked "How committed are the members?". Complement to Kevin N3HKQ about the analysis of finances.
- What are the plans for Phase 2 (trailer) ? And an offer of help (Dan KB3HVN)
- Other fundraising possibilities discussed .

VE – Jacque, N3ZEL – VEC session October 19th. Asks for help. W3RJM volunteers.

QSL manager – Ed, N3ZNI has replied to 5100+ QSOs for our VP2 operations

Website – N3HKQ/N3ZK: Suggests we start to use the new web site forums instead of Yahoo groups. RSS? Email thru website alias? Motion Possible new ISP? FYI ? N3HKQ W3WH second. Fix dues structure to work with PayPal (family members @ \$3 each)

Repeaters, APRS Digipeater, & NP2SH beacon – Pete, N3RNX/Steve, W3SRL/Frank, KB3FZU Power bill. Scenery Hill still down. No access

Club FM Net – Kevin, N3HKQ

Public Service – Mark, N3RDV/Dave, N3IDH

Contests – Ted W4ZE

Activities – Larry K3VX

Quartermaster – Harold K3HCR

Newsletter & PA QSO Party Bonus Station Status – Ron, WN3VAW Pa QSO party last minute details. Details, details

Ways and Means – Carol, KB3GMN

- Christmas party plans; 3 possible locations — Carol will pick one by next meeting. Sign up to indicate attendance.
- 50/50

President – Kevin, N3HKQ:

- October 2007 AMSAT Symposium. 4 hotels to choose from 1st or 3rd weekend. Convinced the AMSAT board to come to Pittsburgh. Our club has to be committed to this event.
- Tower trailer must be ready before this event.

Nominations for Office:

- For President: Randy N3ZK.
- For VP/Secretary: Larry K3VX and Frank KB3FZU.
- More nominations in November

Old Business Bylaws amendment as printed in newsletter. Moved by N3ZNI, seconded by N3SBF. Passed unanimously.

New Business: **WASHFest** ? Wait for W3SRL's report in November.

WACOM Hamfest on November 5th at Washington County Fairgrounds

Good of the order: PAQP Pins advertised on web site. Will be made if sufficient orders are received. \$6 each

Motion to adjourn at 8:20 accepted unanimously

WASH Spotlight: Visiting W1AW



"W1AW bulletin starting in 5....4....3..2..1....," or, "But Honey, we have to stop and eat lunch anyway.... I know this great place in Newington...."

"We stopped in (at W1AW) and got a tour of the operating station(s) - which are open to ANY amateur. Times are 10-12 and 1-3 daily - bring your FCC license. We did not have enough time to stick around and operate." Photo courtesy of and ©Copyright 2006 Paul Lusardi NØVLR

Every month we're going to feature a **WASH** club member, something about them, something they're involved in or a club-related activity that we're involved in, in the **WASH Spotlight**. Submissions for the Spotlight should be sent to Ron W3WN at editor@n3sh.com

Monthly WASH Breakfast

Please join us for the next **WASH** Breakfast! We usually get together on the LAST Saturday of every month for a chance to informally sit down, shoot the breeze, compare notes, drink lots of coffee, and just have a good time!



Join us this month at **The Beach House**, on Route 88 in Fiinleyville, just south of Trax Farms and adjacent to Mineral Beach. Start time is about 8 AM until ????. Monitor 146.955 & 443.650 for talk-in or any last minute changes.

All are welcome, **WASH** members or not, amateurs or not!

Wireless Association of South Hills Membership

2007	KB3NVM	N3ZEL		2005	WASH /MM	Silent
K3WJL	KC4WTT	N3ZK	K3JDS	KA3UPY		Keys
2006	KE7FD	N3ZNI	K3PCF			
AB3ED	NØVLR	W3LE	KA3NMG	WASH GA		
K3AIR	NØWPV	W3RJM	K3TWI	K3OL		K3EED
K3EED	N2QIV	W3RWS	KB3DCO	KB3IJX		(George)
(Cindy)	N3AWF	W3SRL	KB3EPI	WASH NE		KB3ENX
K3HCR	N3CZZ	W3VFA	KB3GUZ	NØPEU		KB3FQT
K3LGM	N3DFK	W3WH	KB3IRQ	WASH NY		N3FZ
K3SGT	N3HKQ	W3WN	KB3IWW	KE3XB		N3KEH
K3VX	N3IDH	W4ZE	KB3IVX	N3YPB		N3OBD
KB3FNM	N3KFD	W8LEV	KB3LIX			N3SKR
KB3FZU	N3QMV	WA3JPP	KE8RN	WASH OH		N3SRC
KB3GMN	N3OVO	WA3RVD	NØPEU	N8DPW		N3XFE
KB3GMP	N3RDV	WA3WMB	N3BSQ	WASH TX		W3ZLK
KB3GMU	N3RHT	WA3YFQ	N3PN	K3LGM		
KB3HVN	N3SBF	WB4GCS	N3RNX			
KB3IFR	N3UE	WO3Z	N3TBK			
KB3KOT	N3XI		N3VEH			
KB3MRT			N3ZCG			
KB3NAF			W3GEL			
KB3NSG			W3HND			
KB3NVL			W3JAF			
				WASH VI		
				NP2JF		

Through November 3rd, 2006

List compiled by

Mark Stabryla N3RDV, Vice President/Treasurer

N3SH McKean Bonus Station

Frank Bobro KB3FZU

I got a later than expected start to McKean County because I was occupied with testing the limits as to how much stuff you can uncomfortably fit into a Volkswagen Diesel. My dog, George, who was present as 'K9-DOG' for my first PA QSO party 4 years ago and is used to having the entire back seat to himself, found he was restricted to half that space. He was sharing his seat with the hex beam, coax, sleeping bags and, of course, the heater – a Heathkit SB-200 linear amp. Lori, KB3GMU, was also uncomfortably packed into the co-pilot seat with plenty of pretzels, chips and dog food.

We arrived at the Kinzua East KOA at 4 PM and checked in with the campground owner. The earlier visit I made to the campground paid off, he remembered me and what I was planning to do for the weekend. We went back to the one room 'Kamping Kabin' where Lori and I unloaded the car.

Unpacking my wire antenna and having been "vertically challenged" in past contests, I wanted to get my long wire into the air first. I had selected a few trees on my previous visit and armed with my homemade slingshot and fishing reel, I set off to gain some elevation from the already high 2190' elevation. I had no problem getting into the first tree that I had aimed for – this was too easy. I laid the antenna out on the ground and found that I needed to select another tree as the first one was too close. This campground is near the Allegheny National Forest, so tall trees are in abundance. Finding a suitable tree, I shot the line up and just as it cleared the tree the reel caught, causing the weight to rapidly twirl around the limb. As I attempted to retrieve the weight, the line snapped and I lost the lead sinker into the tree. No problem, as I thought I had more sinkers. The operative word here is thought. Whoops, those are still on the workbench in Washington County – no good to me here. Doh!

Ok, what else do I have that is heavy? I did bring three PL-259 connectors. I tied one to the line and made a few more attempts. After about 9 or 10 unsuccessful attempts, the line snagged, the PL-259 twirled around a limb and was left hanging 10 feet above me. I tied on the second PL-259 and tried my luck again, but this time I forgot how to tie a knot and watched as the connector sailed away un-tethered into oblivion. Only one more connector – I decided not to use it, in case I needed it. I called Randy, N3ZK, to commiserate and lift my mood. He put me in touch with Paul, KB3KOT, and a plan was hatched.

I drove north into Bradford attempting to locate more lead sinkers. A nice lady at the Dollar General Store directed me to a Wal-Mart about 10 minutes north of town. I began my trek on Route 219, which was a construction zone with both lanes enclosed by concrete barriers. After about 20 minutes, I found the Wal-Mart and purchased plenty of forgotten supplies, including a new fishing reel. In the checkout line, the man behind me asked if I was going fishing; I told him that I was not and explained amateur radio and the idea of our contest to him. He wished me good luck and then the cashier asked me the same question – so I explained it all again. I was feeling better now because I had good will and the necessary supplies, including the all important Duct Tape, to gain sufficient amounts of vertical elevation for my antenna.

On the way back, I spied a Radio Shack and made a stop. Like any good ham, I scanned the shelves for bargains. I found some wire ties, which I also had forgotten to pack, and made my way to the counter. *I have no idea why I did not replace my lost PL-259 connectors!* The nice lady at the counter asked what I was doing and I explained my plans again. She told me that the store manager was a ham and gave me his amateur radio business card in case I needed help. I thanked her and asked her to recommend a good pizza shop. She suggested one in Bradford, so I called and placed my order.

Do you remember the construction zone and the concrete barriers on Route 219? I didn't. I had to drive 10 miles south of town as I was not able to exit the expressway because of those barriers. Then I drove another 10 miles north to obtain the pizza. Food was the remedy to my problems for the evening and it was a very good pie. I spent the rest of the evening setting up my portable shack.

Things began better the next day. I managed to successfully erect my antenna. When I uncoiled the coax, I saw that it had a bad kink, but that was no problem. I cut the cable in half and used my one and only remaining PL-259 connector, then it started to snow. After about an hour, a half inch of snow had accumulated on the ground. I started operating and did not erect the hex beam. My wire antenna was installed to favor southern radiation; with that wire, I was only hearing western sections on 40 and 20 meters and no counties.

When the snow stopped, it melted faster than it had fallen. Now was the time to try the hex beam. As I unpacked it, I remembered Harold telling me that he thought the instructions were not inside; he was correct. I did find a card with the phone number of the manufacturer. Mike Traffie answered and gave me the correct assembly sequence for 20 meters. Thank You! (Mike also sent me via USPS a new set of instructions which I scanned, copied and placed into the bag.) I assembled the hex beam and used the remaining coax to bring it into the cabin. Wait a minute – I need a PL-259 connector. I went back to the tree with the connector mocking me 10 feet in the air above my head. After much patience, swearing softly and a swinging a big stick I was able to retrieve it. Upon examination, I noticed that the shell was damaged from all of the bouncing around it had experienced while flying into trees. I cut up an adaptor cable and scavenged enough parts to make another connector. Why didn't I buy replacements at Radio Shack! Oh well, problem solved and I started to make more contacts.

I had not thoroughly checked the cabin's AC power system during my previous visit and had certainly not anticipated it to be this cold. So I decided to not use the linear amp and instead use the one 15 amp circuit for the electric heater.

The evening ended with a tag team operation sharing one single frequency on 160 meters with Fayette, Clarion and McKean counties giving out the 'blue light special' of bonus points.

Sunday was not much warmer but I was able to use the linear amp instead of the electric heater to keep the cabin toasty. During the day more tag team bonus station operations occurred with the Venango and Fayette stations. I packed up the QTH at 2 PM and began the journey home. I casually operated mobile in Elk County and made one contact with a Kansas City station. He needed Forrest County for a clean sweep, and as I was headed that way, I would have been glad to give it to him. But as I entered Forrest County, his signal faded from my radio. I never heard him again. Under my own call, I made a few more mobile contacts – most of them out of state.

The theme of this contest was that nothing behaved as it was as expected. I heard the out of state stations on the lower bands better than the in state ones. I did not have to pull contacts "out of the weeds" – they were either S9 or not there at all. I did not get the pile-ups that I had expected to get as the bonus station.

What would a remote operation be without Mr. Murphy paying a visit and the propagation being unexpected? Overall, I succeeded in my goal, which was to have a good time. In the pursuit of that goal, I made 258 contacts in 59 counties and 39 sections.

All Photos this page by Frank Bobro KB3FZU or Lori Bobro KB3GMU, courtesy of and ©Copyright 2006 Frank Bobro KB3FZU



Announcing the Seventh Annual WASH 2 Meter Simplex Contest

This January will mark the Seventh Annual **WASH** 2 Meter Contest. We've already had a lot of interest in it, and this year promises to be even more exciting!

Remember: In response to input from our participants, and in view of the growing popularity of radios like the Ten-Tec 6N2, IC-706 & FT-100, the contest will NOT only be an FM contest but also open to SSB, and CW! (Digital? Maybe next year!)

Everyone who participated in it the last four years had a blast, and we hope to continue the tradition again this year!

There may be some additional "tweaking" of the rules between now and January, so keep an eye on this column in the next few newsletters, and we'll look forward to seeing you on the 13th!

Date & Times: Saturday, January 13th, 2007 from 7 to 11 PM EST.
(That's January 14th 0000-0400 UTC to the purists!)

Objectives:

- To make as many contacts as possible
- To have fun!

Band, Mode & Frequencies: The contest will take place solely on 2 meter band.

- **FM** : FM simplex only, no repeater contacts. The FM frequencies are all standard 2 Meter simplex frequencies, as per the ARRL 2 Meter Band Plan, every **15 kHz**, from **146.535 to 146.595 MHz**, and **147.520 to 147.580 MHz**. The National Simplex Frequency, 146.520 is **not** to be used. Use of simplex frequencies in the "FM Experimental Simplex" band of 145.510 to 145.670 are not recommended. See list of recommended simplex channels at the end of the rules.
- **CW**: 144.05 to 144.1 MHz Only. (See ARRL 2 Meter band plan)
- **SSB**: 144.2 to 144.275 MHz Only. (See ARRL 2 Meter band plan)

*Note: Listen for CW QSO's around 144.1 MHz 15 minutes after the hour
Listen for SSB QSO's around 144.2 MHz 30 minutes after the hour*

In the event of accidental QRM with nets and non-contest QSO's in progress, please respect their right to the frequency and QSY.

Power Limit: Maximum 50 watts output. No external amplifiers.

Exchange : Callsign, contact number, ZIP Code, and whether or not you are a Member of **WASH** or a Club Station.

For the purposes of the contest, the 5 Digit ZIP Code for your location is sufficient — do not use the "Zip +4" code. Mobiles and portables should use the ZIP code of their location as determined to the best of their ability. Canadian stations will use their 6 digit postal code

Example 1: "N3ZCG from N3 ZEL, please copy Number 3, 15347, Member."

Example 2: "K3VX from K3CM, please copy Number 21, 16801, Non-Member"

Example 3: "W3WH from W3OC, please copy Number 7, 15137, Club Station"

Contacts : Work as many different calls and locations as possible, giving Exchange as noted above. Work each station **once** per mode, and **once** per ZIP Code — Mobiles can be reworked whenever they change locations. Remember hilltops work best!

Disqualification: Remember, this is a friendly "for fun" contest. Stations may be disqualified for infractions of the rules and for unacceptable operating practices. While not an inclusive list, stations may be disqualified for:

- FM signals transmitted on simplex channels 146.52 MHz and below.
- Intentional interference to non-contesters, established nets, and QSO's
- Intentional interference to other contest operators
- The contest committee reserves the right to verify QSO's. QSO's that can not be verified may be removed from the log without penalty, especially if the committee is unable to obtain log information for verification.

Scoring: Each Contact, non-**WASH** Member: 1 point
WASH Member: 2 points
(* Club Stations: 3 Points

Multipliers: Number of different ZIP Codes
Power: Stations running 10 watts or less: 2
Stations running over 10 watts: 1

Final Score: Total Points x Locations x Power

(* "**Club Stations**" for the purposes of the contest are those calls assigned by the FCC or Industry Canada or equivalent to **bona-fide** Amateur Radio Clubs. They include **N3SH, WA3SH, NP2SH, WA3COM, W3KWH, N3GC, W3PIE, K3CR, W3YA, K3HKK, W3YI, W3VC, W3PGH, W3EXW, K3MJW, NY3EC, W1AW**, etc. The call **MUST** be assigned as a Club Call to be eligible. [In other words, you can't just claim to be a "club" and pick a call, or use the call of a club member; the call must be assigned as a club call]

After the Contest: Fill out all the log information. In the upper left corner check whether "base" or "mobile." In the upper right corner be sure to enter your callsign and club affiliation (or "none" if not a member of any club). Please number all log sheets consecutively. Log sheets can be downloaded from the **WASH** web site, www.n3sh.org, no later than January 1st.

Submit Log Sheets: Check your log sheets carefully for dupes. Verify that all information is entered.

Send the logs to: WASH 2 Meter Simplex Contest
c/o Ron Notarius W3WN
3395 Rosewood Drive
Pittsburgh, PA 15234-2546

Enclose a SASE #10 for return of results.
Entry Deadline: February 7th, 2007

Each log submitted with SASE on or before the deadline will receive a raffle ticket to **WASHFest 2007** on February 25th

Recommended FM Simplex Frequencies:

After the first year of the contest, we found that the limited number of frequencies suggested in the rules were insufficient for the activity level. In subsequent years, we permitted use of any recognized simplex frequency, as per the ARRL recommended guidelines published in the annual ARRL Repeater Directory and other sources, above 146.520 MHz.

You will note that many of these frequencies are listed as potential dual use, with a "local option" for them to be used for repeater inputs and outputs.

We have been notified that the Western Pennsylvania Repeater Council (WPRC) has issued their own "local" band plan for the 2 meter band, and has elected to withdraw most or all of these dual-use or optional-use frequencies in favor of their being assigned to FM repeaters, primarily those on 1 MHz splits. Although we have not heard of interference problems with any repeater (with ONE exception – the contest participant was notified of interference and immediately moved), good amateur practice requires us to take note of the situation and the potential for interference problems in some parts of Western Pennsylvania where these repeaters exist.

The following list of recommended frequencies are recognized as standard simplex channels and should not suffer from co-channel problems with any existing repeaters:

146.535 MHz	147.525 MHz
146.550 MHz	147.540 MHz
146.565 MHz	147.555 MHz
146.580 MHz	147.570 MHz
146.595 MHz	

The National Simplex Frequency, 146.520, may not be used. To avoid interference to other contestants and other users of the bands, please do not operate on 5 or 10 kHz "offsets" from these recognized FM channels.

To be clear, we have no objection to contest participants operating on additional recognized FM "optional" simplex frequencies above 146.520 MHz. Participants who do so run the risk of potential interference with repeaters sharing these frequencies, and therefore do so at their own risk. Again, as per the rules of the contest, if you operate on these frequencies and are notified of actual interference, please exercise good amateur practice and QSY.

We also recognize that the WPRC may continue to be less than happy with this stance. We point out to them that the amateur spectrum is a shared resource. And frankly, if push came to shove, the legality of their "withdrawing" of the frequencies from use by the general amateur population of WPA might be an interesting question before the FCC. (To say nothing of the fact that this change in band plan is probably something most WPA amateurs are unaware of, but that's another story).

Bottom line: Enjoy the contest, but do so responsibly.

More From the N3SH Bonus Stations 2006 Pennsylvania QSO Party



Bill's IC-706 would just shut off "for no reason" (there's got to be one).

We also had an unusual problem with the DC in Coax setup which was connected to the SGC239. In mid morning on Sunday when we keyed my 706 the rig stayed in transmit. This happened with either the computer or the external keyer. I suspect RF feedback but why after many hours of working properly. My Drake TR7 (substitute for Bill's 706) didn't do this. Boat Anchor that it is works great. In fact I'm going to see if I can get a much sharper CW filter for it (now 500 Hz)

— Larry Comden K3VX, N3SH Allegheny CW

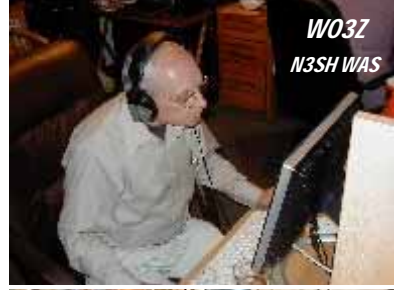
Photos courtesy of & ©Copyright 2006 Larry Comden K3VX



I quit at 5:30. I hit the brick wall and was not getting anyone anyway.

— Ted W4ZE, N3SH Washington

Photos courtesy of & ©Copyright 2006 Ted Huf W4ZE



The accommodations were great and there was certainly no lack of food thanks to the UARC guys and KB3HVN. The antennas were phenomenal too. None but the 160 meter needed a tuner across the entire band. N3DFK had the pleasure of using a Hygain TH6-DXX Super Thunderbird yagi for 20-meters and made good use of it. I worked 80-meters with a double dipole that truly needed no tuner anywhere I wanted to go on the band. Likewise N2QIV and KB3HVN for the 40-meter dipole. I especially enjoyed the tag team on 160-meters with Clarion and McKean counties on Saturday evening and on 80-meters with Clarion and Venango on Sunday afternoon. The only thing that could have been better was band conditions.

— Kevin Smith N3HKQ, N3SH Fayette

Photos courtesy of & ©Copyright 2006 Kevin Smith N3HKQ



Despite strange band conditions (who expects to work CA on 40 SSB in the middle of afternoon from WPA?), we had a great time. Frank's superior antenna system let us give out a lot of contacts, and our "rookies" had a great time working their first contest! Worked all continental US sections, half of Canada, most of the counties (no clean sweep again, darn it!). One of the highlights of Saturday afternoon was working the ZL8R DX-pedition, through the pile-up on the first call for our first DX contact!

— Ron Notarius W3WN, N3SH Allegheny/SSB

Photos courtesy of & ©Copyright 2006 Frank Sanns N3XI



Our thanks once again to the Uniontown ARC W3PIE for hosting the N3SH Fayette operation at the W3PIE club house. Thanks also to Kathy Williams for hosting the N3SH Venango crew at her house (pictures forthcoming?)

N3SH/FAY pictures to the right courtesy of and ©Copyright 2006 Hank Marzine KB3FNM

Frankentruck: N3SH Mobile

Photos courtesy of and ©Copyright 2006 Jacqué Gosselin N3ZEL



Dave K3LGM and Ed N3ZNI usually tag-team as N3ZNI mobile in the contest, but this year were QRV as the mobile N3SH bonus station. Good job again guys!



KA3JWE Software Discontinued

Don KA3JWE has announced that he has ceased further modifications on his Pa QSO Party software package, considered by many one of the best available logging programs for a single op or single transmitter station in any state QSO party.

The application is no longer available on his web site.

(Presidential Words Continued from page 1)

The social highlight of our year will take place in December and that is our annual Christmas party. Carol Danko, KB3GMN as usual is organizing this event and she has arranged for it to take place at the **JAMES CENTRE** (www.jamescentre.com) near the West End Circle. The James Centre is operated by our own Frank Sanns N3XI, and I am sure Carol and Frank a great evening is in store for us. This year the Christmas party will be held Friday evening, December 15th beginning at 6:30 PM. Please mark your calendar and get your reservation to carol as soon as possible.

Once again I will have the pleasure of awarding the N3SH Kilowatt Award to a WASH member who I believe has made a real difference in the club. Last year's recipient was Ron Notarius, W3WN who is a tough act to follow. This year's recipient is known to me only so if you are at all curious, you will have to come to the Christmas party to find out who it is. See you there.

Finally I want to wish everyone a Happy Thanksgiving. I hope you can spend it with family and friends.

— 73, Kevin Smith N3HKQ, President
Wireless Association of South Hills, Inc
N3SH / WA3SH / NP2SH

DX News Briefs



Members of the F6KOP Provins ARS are heading up a multi-national DXpedition team to **XT2 Burkina Faso** in January 2007. Look for activity on 6 through 160 meters on CW, SSB, RTTY, PSK, SSTV and possibly WSJT for 6 meters. They will have six rigs, two amps, and multiple antennas. Activity is expected between January 6th and January 20th next year. They do not know their callsign at this time. QSL via F9IE — N2WB

The Five Star DXers Association (FSDXA) has announced that their next DXpedition will be St. Brandon (**3B7**), and it is to take place in September 2007. FSDXA plans to have up to twelve stations on the air, many using amplifiers and monoband beams, 24 hours a day, for almost three weeks, including three weekends, around the autumn equinox when DX propagation on all bands is typically at its best. They also plan to exceed 100,000 QSOs during this DXpedition. The team will be based on Isle du Sud, approximately 250 miles north-east of Mauritius. They have already received agreement in principle from the radio licensing authorities in Mauritius. At this time they are seeking contributions from sponsors to help defray the very significant logistics costs of this DXpedition. More details at www.3b7c.com and www.fsdxa.com — NA2M

"All incoming QSL card requests for VU4AN/VU3CHE are now answered and in the mail. New incoming will be answered fast now and HS buro cards will be answered ASAP. Suggestions:

- Do not fold your SAE in the center. Fold it off center if it must be folded at all. Opens easier that way.
- Never bury your green stamp and your card down inside your SAE. You are not hiding anything from expert postal thieves, and you are making the DX's life harder.
- Remember if you are sending to a hot and wet country like Thailand, the glue sticks on your SAE and another frustration is introduced for the DX" — VU4AN/VU3CHE (K4VUD)

Bill W9OL has updated his **IRC/Green Stamp information chart**. You can view the chart at www.qsl.net/w9ol/IRC_CHART.htm, or download it as an Excel spreadsheet at www.qsl.net/w9ol/IRC_CHART.xls — W9OL

TA3YJ reports that some QSL cards are not being received by him and other amateurs in Turkey via the bureau. He asks that he be QSL'd direct and not via the **TA Buro** until further notice — TA3YJ

E-Mail QSL Robot: Send an email to qsl.f6kpo@escout.net with nothing in the subject line, and only the DX callsign in the message body. If the QSL route is listed in it's database, the robot will give you an answer via return email, normally in a matter of moments. — F6AJA

YU6AO cards are again being accepted for DXCC credits — YZ5W

QSL Routes

4O6DX via K8LEE — N7SEJ	J7R via N1DL — W2IRT
4U1UN via HB9BOU — W2IRT	KH8SI via JA1BK — AC7DX
5F5ØKD via EA7FTR — K3WI	P28VVB via UA4WHX — ON7YX
5WØTT via JA3FYU — W2IRT	TX5NK via DJ8NK — W2IRT
5WØYY via 7K3BKY — K3WI	ST2BF via W3HMK — K3WI
5W1SA via JH7OHF — K3WI	SV5/OM2TW via OM2FY — WA3FRP
5Z4DZ via PA1AW — KE3D	T3Z2 via K3PD — W2IRT
A61M via A61DV — W2IRT	TM5F via F1TKA — W3AWU
C38JM via C31JM — W2IRT	TU2/F5LDY via F1CGN — W9OL
C56X via DL9USA — K3WI	TX1A via LZ1JZ — W2IRT
CN8KD via EA5XX — K3WI	TX5NK via DJ8NK — N7DC
E51QMA via OM2SA — VA5DX	TX5T via DL2RUM — K3WI
EA9EU via EA9AZ — W2IRT	TY5WP via PA7FM — W2AY
EO61JM via K2PF — K3WI	UN5J via W3HMK — W2IRT
EXØY via RA3NY — DE1DXX	UN7DA via EA5KB — K3WI
FK8GX via W3HMK — W2IRT	UQ1D via EA5KB — K3WI
FT5XP via F4EFI — F5NOD	VP5H via WØGJ — K3WI
H44VV via UA4WHX — ON7YX	VYØICE via VE2AWZ — KE3D
J28JA via F5JFU — W2IRT	YB2MTA via EA7FTR — W2IRT
J5UCW via IK2ILH — W9OL	YJØVB via UA4WHX — ON7YX

Thanks to the NJDXA DX News & DX Chat Reflectors, the DX-QSL Reflector, 425 DX News, OPDX News, Diamond DX Club News, ICPO Bulletin, & ARRL DX Bulletin for our **DX News** information. Thanks also to Bill Moore NC1L / ARRL DXCC Desk, & Bernie McClenny W3UR / *The Daily DX* for confirmations & additional information.



WASH Classifieds

Information shown here is as supplied to the **WASHRag**. Condition as stated, and all sales should be considered "as-is" unless otherwise noted. All subject to prior sale or withdrawal from sale at the owner's discretion. All responsibility for this information lies with the source and not the **WASHRag** or the **WIRELESS ASSOCIATION OF SOUTH HILLS, INC.**

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FCC News

ARRL Web Extra & ARRL Letter, courtesy of the American Radio Relay League

Newington, CT, November 6th, 2006 —

The FCC has warned several individuals that unlicensed use of Amateur Radio transmitting equipment on 2 meters to facilitate their bear hunting activities is illegal and may result in substantial fines. FCC Special Counsel in the FCC Spectrum Enforcement Division Riley Hollingsworth warned seven individuals in Grand Marais, Luzerne, Warren, Shelby Township and Newberry, Michigan, on October 19.



"While many hunters use Citizens Band radio or Family Radio Service equipment, the use of Amateur Radio equipment requires a license," Hollingsworth advised. He also sent an *Advisory Notice* to the Michigan Bear Hunters Association with the suggestion to post it on the Association's Web site.

In a similar situation, the Commission attempted to enlist the aid of a Florida soaring center in spreading the word that glider pilots using its facility also need to avoid unlicensed operation on 2 meters. Hollingsworth asked Quest Air Soaring Center in Groveland to advise its participants that unlicensed use of airborne radio equipment not only violates federal law but causes widespread interference to licensed stations. He suggested the soaring center post the *Advisory Notice* on its Web site as well.

The FCC also warned yet another trucking firm of apparent unlicensed operation on 10 meters by two of its drivers this past summer. Hollingsworth wrote Sysco Corporation of Houston, Texas, October 10, citing reports that the transmissions were spotted August 11 and 18 on 28.115 MHz while the drivers were on the road in Michigan.

In all three instances, Hollingsworth pointed out that violators face fines of up to \$10,000 and possible imprisonment as well as seizure of any transmitting equipment they may have been using illegally.

In other recent actions, the FCC alerted two radio amateurs that the Wireless Telecommunications Bureau (WTB) has referred their Amateur Radio license renewal applications to the Enforcement Bureau for review. Hollingsworth notified each licensee to expect a *Hearing Designation Order* from the Commission.

Hollingsworth told David O. Castle, WA9KJI, of Evansville, Indiana, October 11 that the WTB referral was the result of "longstanding complaints against the operation of your station" involving interference on HF and 2 meters. In another case, Hollingsworth wrote William F. Crowell, W6WBJ (ex-N6AYJ), of Diamond Springs, California, that his license renewal application has been designated for hearing after a review of "numerous complaints filed against the operation of your station" alleging deliberate interference.

Hearings are held in Washington, DC, before an administrative law judge, and the applicants will have the burden of proof in showing they're still qualified to be Amateur Radio licensees. Over the past several years, the FCC has asked both licensees to respond to allegations of deliberate interference on the amateur bands.

A *Notice of Suspension* went out October 11 to a Technician licensee, Charles H. Fenske, NØPPZ, for failing to maintain a current mailing address on file with the FCC. Hollingsworth told Fenske that the FCC suspended his license after the US Postal Service was unable to deliver a September 20 letter asking him to respond to complaints alleging deliberate interference on 75 meters, operation on unauthorized frequencies and "failure to control your transmitter."

The suspension — for the remainder of the license term — becomes effective 15 days from the date of attempted delivery of the suspension notice or until the licensee provides a valid mailing address to the FCC, Hollingsworth said.

The FCC has declared Broadband over Power Line (BPL)-enabled Internet access service to be an information service. The November 3 *Memorandum Opinion and Order (MO&O)* in WC Docket 06-10 places BPL-enabled Internet access service on an equal regulatory footing with other broadband services, such as cable modem and DSL. BPL proponent the United Power Line Council had asked the Commission last December to issue a declaratory ruling in the matter. The FCC said competition among broadband services providers will provide consumers with more and better services at lower prices. "The Commission's broadband statistics show that subscribers to BPL Internet access services, although few in number overall, increased by nearly 200% in 2005," FCC Chairman Kevin Martin said in a statement.

The FCC said the approach it's adopted with respect to BPL is consistent with the framework that it's established for cable modem service and wireline broadband Internet access service.

Now in our TWELTH big year!



WASHfest 2007

The South Hills Hamfest

Sponsored by the Wireless Association of South Hills Amateur Radio Club, Inc.

Sunday, February 25th, 2007

8:00 AM until 3:00 PM Rain or Shine (or Snow!)

Castle Shannon VFD Memorial Hall

3600 Library Road (State Route 88), Castle Shannon, PA

Talk-In on 146.955(-) and 443.650(+) 131.8 PL



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- 1st Prize: (to be announced)
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Main Prize tickets are \$2.00 each, or 3 for \$5.00

All Prizes Subject to last-minute changes

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Steve Lane, W3SRL at (412) 341-1043 or Bill Hill, W3WH at (724) 746-1776

E-mail us directly at washarc@yahoo.com Check out our website too! www.n3sh.org

Hamfest Table Reservation Form—Please PRINT LEGIBLY ALL INFORMATION

Name: _____ Email: _____

Address: _____ Phone: () _____ - _____

City: _____ State: _____ Zip: _____

Call Sign: _____

Tables WITH Electricity: _____ X \$15.00 = _____

Tables WITHOUT Electricity: _____ X \$10.00 = _____

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WIRELESS ASSOCIATION OF SOUTH HILLS, INC.

Membership Application/Renewal for 2007



I would like to join WASH!. I am interested in the following type of membership: **New Membership** **Membership Renewal**

(check quarter \longrightarrow)
(check one \downarrow)

1st Qtr
Jan-Mar **2nd Qtr**
Apr-Jun **3rd Qtr**
Jul-Sept **4th Qtr**
Oct-Dec

- (F1) Full Membership: \$20.00 \$15.00 \$10.00 \$5.00
- (F2) Full Membership < 18 or > 65 yrs of age: \$10.00 \$7.50 \$5.00 \$2.50
- (A1) Associate Membership: \$10.00 \$7.50 \$5.00 \$2.50

(FM1) Family Membership (\$3.00 x No. of household family members): \$ _____

Name(s): _____

Name: _____

Call Sign: _____

Address: _____

License Class: _____

City, State: _____

Expires On: _____

Home Phone: _____

Work Phone: _____

Email Address: _____

Birthday: _____

New Members Only:

- I do NOT want to be added to the Club E-Mail Reflector
 - I do NOT want to be added to the Electronic Newsletter Mailing List
- [If you have an Email address, you Will be added to both lists UNLESS you choose to Opt-Out]

ARRL Member? Yes No Family ARRL Member? Yes No

Date: _____

Amount Enclosed: \$ _____

Signature: _____

Please make your check or money order payable to the club treasurer, Mark Stabryla. The Wireless Association of South Hills, Inc. reserves the right to accept or reject new memberships or renewals. Please return completed membership form along with check/money order to the club treasurer or mail to:

WIRELESS ASSOCIATION OF SOUTH HILLS, INC.
c/o Mark Stabryla N3RDV, VP/Treasurer
1120 McKnight Drive
Bethel Park, PA 15102-2456



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Just fill out the form below, include a check or money order made out to WASH/ARRL, and return all to the club treasurer or mail to:

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Name: _____

Call Sign: _____

Address: _____

Date of Birth: _____

City, State, ZIP: _____

Total Enclosed: \$ _____

Please Check the Appropriate One-Year Rate:

- \$39 in US
- Age 65 or older, \$36 in US
- Age 21 or younger, \$20 in US (only if you are the oldest licensed amateur in your household)
- Canada \$49
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Name & Call Sign: _____

Name & Call Sign: _____

Name & Call Sign: _____

Dues subject to change without notice

Inside This Issue:

- Pictures... we have lots and lots of pictures from many of the N3SH stations during the Pa QSO Party!
- Will 40 be the same without CHU?
- Murphy pays a visit to N3SH McKean!
- **2007 Officer Elections This Meeting!**

All this & much more... waiting for you right inside these pages!!



N3SH WAS at Full Steam!

Dave N3IDH and Jacqu  N3ZEL operating from W4ZE's shack as part of the N3SH Washington Special Event Station during the 2006 Pennsylvania QSO Party.

More info and pictures from many of the bonus stations inside!

Photos & text courtesy of & Copyright  2006 Jacqu  Gosselin N3ZEL

The WASHRag

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