



WASHRAG™

www.n3sh.org www.washrag.info



VOLUME 11 ISSUE 11

NOVEMBER 2009

N3SH
WA3SH
NP2SH/B

Wireless Association of South Hills

Repeater Update

I just wanted to let everyone know what is going on with the 146.955 and 442.550 repeaters.

In trying to take full advantage of the existing controllers on the repeaters so we can link them together, use Echolink etc. I began exploring our options and entering the necessary programming to make this happen. Problems ensued, and I called the manufacturer for help. We could not resolve the issues we were having, so I sent the 440 machine's controller back to them for evaluation. They found the problem, and they were about to send it back to me when their shop burned to the ground on 10/2/09. Our controller, all parts and stock are gone. The 2m machine is unaffected, but I wanted both machines compatible and bug-free before we moved them to the new site because access will be limited once they are up there.

After hearing about the fire I contacted the club officers and asked for their wise counsel. They agreed that the way to go was to buy a single new, more modern controller that would handle our needs now and into the future and I did so. The new unit arrived 10/27 and I had it installed that afternoon but programming issues caused more hair loss and a few more long-distance phone calls. Issues resolved, and more programming ensued.

Three days later the machines live! We still have a couple of minor issues to resolve, but I'm confident that we can work through these in a couple more days with factory support. When we have it all hammered out we will be able to link the two machines at will and also have the ability to add features such as an HF link, etc as we wish. We will also have the ability to program messages to announce club events, nets and general informational messages, automatically link at drive time, etc. all done remotely. At some time in the not-too-distant future I hope to also be able to remotely program digital real-voice messages from our members!

I'm working through all this as quickly as I can folks, and I realize that the systems have been down for a long time. All I can tell you is thank you for your patience and understanding. I hope to have our repeaters up and running again as soon as I possibly can but my work, teaching and travel schedule is going to make that 2-3 weeks from now and that can't be helped. I'll post more updates as I have news to report.

Update: As of this November 2nd, both the 146.955 and 442.550 machines are working perfectly under the new controller, and all the basic functions appear to be working as programmed.

The new Arcomm AR-210 controller has three ports, which leaves us a "spare" port for future uses / capabilities. For the first time we will have the ability to not only link the two machines together at will, but we can also program macros to do this during commuting hours much the same way that Frank has with his N3FB machine.

In the coming days I will be programming and testing all of the macros (programs) that will allow us to keep

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on Page 3

Next Meeting: November 12th, 2009

The next monthly meeting of the WIRELESS ASSOCIATION OF SOUTH HILLS, INC. will be Thursday, November 12th, at the Peters Township Library, 616 East McMurray Road, McMurray, starting at 7:00 PM.

2010 Officer Elections, the WASH 2 Meter Simplex Contest, WASHFest 2010, the Christmas/Holiday Party, and planning for the next year are on the agenda.

Talk-in on the 146.955(-) N3SH/R and 443.650(+) N3FB/R Repeaters (131.8 PL). All members, guests and interested parties invited!

WASH 2009 Christmas / Holiday Party

Plans for the Christmas party are definite. It will take place on the 15th of January 2010 at 6.30pm, food will be served between 7&7.30pm. It will be held at the Bethel Park Fire Hall, on Brightwood Road in Bethel Park. More info on directions will come at a later date.

The cost of the party will be \$12.00 per person. We will also have our Chinese Auction.

I will take reservations until December 30th. However, I would like to be paid by the December meeting. If that is not possible I will accept payment by mail no later than December 30th. If payment is made by check, please make it out to me, Carol Danko.

The menu is as follows:

- ♦ Sautéed Chicken Romano
- ♦ Slow Roasted Top Round w/Mushrooms in Au jus
- ♦ English Style Baked Scrod
- ♦ Baked Ziti in Tomato Sauce
- ♦ Vegetable Medley
- ♦ Parsley Potatoes w/Seasoned Crumbs
- ♦ Garden Tossed Salad
- ♦ Assorted Dinner Rolls
- ♦ Coffee and Pop
- ♦ Cake and Cookies

BYOB if you prefer a beverage of alcohol.

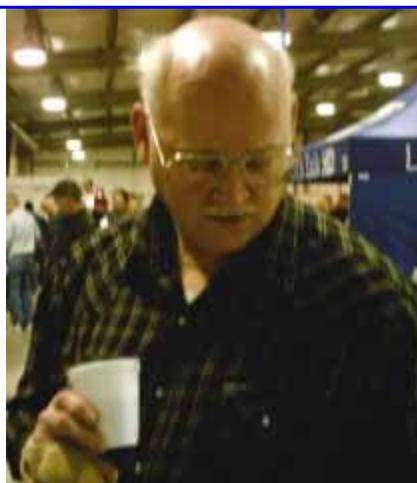
There will be more information as time goes on.

—73, Carol Danko KB3GMN

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"Seen" at the WACOM Hamfest



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WASH 2009 OFFICERS

EXECUTIVE COMMITTEE:

President	Larry Comden K3VX
VP / Secretary	Bob Timmins AB3ED
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
NP2SH 2009 QSL Manager	Carl Schroeder K9CS
VE Team Liaison	Jacqué Gosselin N3ZEL
Webmaster	Randy George N3ZK
Quartermaster	Harold Rosenberger K3HCR
WASH FM Net Manager	Kevin Smith N3HKQ
WASHFest 2010 Committee	Kevin Smith N3HKQ, Chairman
	Carol Danko KB3GMN

Activities & Operating Events
 Ways & Means
 Field Day 2009 Coordinators

Bob Timmins AB3ED
 Carol Danko KB3GMN
 Kevin Smith N3HKQ
 Randy George N3ZK

CLUB-AFFILIATED REPEATERS, BEACONS, & DIGIPEATERS:

Mt. Lebanon	N3SH / R	146.955 MHz (-)	PL 131.8
Mt. Lebanon	W3SRL / R	442.550 MHz (+)	PL 131.8
Canonsburg	N3FB / R	443.650 MHz (+)	PL 131.8
St. Johns, VI	NP2SH / B	28.276 MHz	Propagation Beacon
Canonsburg	N3SH	144.390 MHz	APRS Digipeater

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 LEGAL STUFF

"The WASHRag™" (formerly "The Mariner™") is the Official Newsletter of the **WIRELESS ASSOCIATION OF SOUTH HILLS, INC. (WASH)**

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Editor & Publisher: Ron Notarius W3WN

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Ron Notarius W3WN
 3395 Rosewood Drive
 Castle Shannon, PA 15234-2546

e-mail: [newsletter at n3sh dot org](mailto:newsletter@n3sh.org) or [w3wn at arrrl dot net](mailto:w3wn@arrrl.org)

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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 N3RNX/R Repeater System and the N3FB/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 Glen Roberts KE7FD of The Internet Guild for his assistance in providing space on-line for our website for back issues of "The WASHRag™" which can be found at www.washrag.info

WASH Amateur Radio Club News Briefs

Next WASH VE Test January 21st

The Next WASH VE exam sessions will be **Thursday, January 21st, 2009, 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@comcast.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 **\$15.00** (payable to: ARRL VEC)

Future test dates: Thursday, April 15th, 2010
 Thursday, July 17th, 2010
 Thursday, October 21st, 2010
 Thursday, January 20th, 2011
 (tentative)

October 31st... a crisp autumn morning, children and parents preparing for Halloween fun and activities, and of course, the more-or-less monthly return of **the WASH Breakfast Gang** at **The Beach House** in Finleyville. This month, the hungry ones included AE3DL, WB4GCS, K3VX, W9UK, N3DFK, W3WN, K3SGT & Barb, N3FB & KB3G. Besides the many tall tales coming out of the Pa QSO Party earlier that month, the topics of the day included the newest Royal Caribbean cruise ship, piracy on the high seas, N1MM logging, repeater woes, the invasion of Japan in World War 2, Medical School & the study of neurology, wire antennas, highway construction, road rage, motorcycles and scooters, a December DXpedition to VP2M, Albania & Croatia, holiday airline charges, really good plastic rocks, and all sorts of other interesting things as well.

Intrigued? Wondering what you're missing out on? Join us for our next post-Thanksgiving Club Breakfast on Saturday, November 28th, at **The Beach House**, Library Road, Finleyville, just south of Trax Farm. Come down & share a good time with us!

A new meeting place? It's been about 5 years or so since we left the John McMillian Presbyterian Church for the Peters Township Library. While the library has been great to us, the occasional parking and scheduling challenges, especially when other groups are using the library at the same time we are, have encouraged Larry K3VX and other club officers to look around and see if someplace else might be better.

Larry has talked to John McMillian, and we are welcome back there. Only problem is, the current policy of the church is that for outside organizations to meet there, at least one member of the organization must be a member of the church. If anyone is a member of JMPC, please let Larry know!

Otherwise, we're seeking a location that is available, has plenty of parking, and that is (roughly) centrally located for the vast majority of our club members — the South Hills area of southern Allegheny County and northern Washington County. If you know of anything, please let Larry and the club officers know.

WASHFest 2010 will be here before you know it. Ye Editor spoke with Atlantic Division Director N3LLR, and Bill tells us that he and WPA Section Manager N3MSE are looking forward to being there. In addition, Ye Editor had a nice conversation with WPA DXCC Card Checker NQ3A, and Art has also indicated that he can be available for the hamfest. We may have other surprises on that front upcoming...

Speaking of things that will be here before you know it... the annual **WASH 2 Meter Simplex Contest** will be upon us in just a few short weeks, believe it or not! It's time to start talking this up on the repeaters, and the 2010 document package will be available on the club websites shortly. Can you believe this is our tenth one already?

The 146.955 Repeater situation, as you saw on Page 1, will soon be resolved. This is a good time to remember all of the effort and hard work our repeater folks — Steve W3SRL, Frank N3FB, and (before he moved away) Pete N3RNX — have performed at personal cost & for little credit over the years. It's very easy to take them and their efforts for granted, until something like the .955 situation happens and reminds us of how important they all are. Take a moment, and thank a repeater owner today... they've earned it.

The FCC has announced that the fee for a Vanity Amateur Radio call sign will increase by \$1.10 to \$13.40 effective September 10th. This will affect both new and renewal applications for Vanity call signs.

N3SH/R Continued from Page 1

these functions operable but the controller itself secure from hacking. There will be a small group of control operators that will have the codes to run the basic stuff, and I'll get those codes out as soon as they are done.

One thing that I am also planning to do eventually is to add some "Celebrity voices" for the IDs and such. If you or somebody you know is interested in recording a short .wav file, we can upload it and play it as one of the ID messages in rotation. Contact me off list at w3srl@yahoo.com and we can discuss.

Many thanks go out to the club members and especially the officers for supporting what has seemingly become the project from hell. More info as things develop.

— 73, Steve Lane W3SRL

On October 15th **WASH** held an exam session. Many, many thanks to our Volunteer Examiners for their help:

- ◆ Don AE3DL,
- ◆ Bob W3RJM,
- ◆ Rich N1NCZ,
- ◆ Frank N3FB, and
- ◆ Ed N3ZNI

We had five candidates, and everyone came away with something—a very successful test session!

New Technicians are:

- ◆ Thomas Brown KB3TOB
- ◆ Christopher Eger KB3TOC
- ◆ Douglas Philips KB3TOA

Also:

- ◆ Eric Johnson KA3RLC has upgraded to General.
- ◆ Thomas Tully KB3SRB has upgraded to Extra with the new call of AB3KA.

Congratulations all!

— 73, Jacqué Gosselin N3ZEL

WASHNet

2009 NCS Schedule

11/01 — Dave N3IDH	12/13 — Harold K3HCR
11/08 — Bob AB3ED	12/20 — Carol KB3GMN or Richie N3SBF
11/15 — Frank N3FB	12/27 — Dave N3IDH
11/22 — Dave N3DFK	01/03 — Bob AB3ED
11/29 — Kevin N3HKQ	01/10 — Kevin N3HKQ
12/06 — Special Guest!	

Join WASH or Renew your Membership for 2010 Today! Membership Application on Page 13!!

Minutes, August 9th Meeting

Kevin Smith N3HKQ, Acting Secretary, **WASH**

Larry K3VX, called the meeting to order at 19:00 hours. There were 17 members and guests in attendance.

A moment of silence was observed for recent silent keys and other deserving persons.

A motion was made to accept the minutes of the June 2009 meeting as published in the July & August 2009 newsletters. The motion was voted on and passed.

Committee reports:

Treasurer (N3RDV): Mark reported the club's account balance.

Secretary (AB3ED): No report.

VE Report (N3ZEL): The result of the most recent VE testing resulted in two new Techs. The next VE session will be in October and as always VE's are always needed and welcome.

Repeaters (N3RNX, W3SRL & N3FB: The N3SH 2-meter and W3SRL 70-cm repeater are temporarily off the air as they have been taken from the former site in Mount Lebanon to Steve Lane's home. They will remain there until final arrangements are complete with the new host. The new location for the repeaters will be revealed once this occurs. Steve is confident that the repeaters will be relocated sooner than later and that the new site is actually better than the old one in terms of location and elevation.

FM Net Report (N3HKQ): The NCS schedule for the last half of 2009 is published. It is my goal to try to have a surprise simulated emergency sometime.

Field Day feedback: Larry K3VX asked for feedback about the South Park location for Field Day. In general everyone had positive opinion about the location although a few members still preferred the Mingo Park location in conjunction with the Astronomy group. Kevin Smith said he would chair the event again next year regardless of where it is held.

Ways and Means (KB3GMN): 50/50, Show me the money!

Public Service (N3RDV): Dave DeMotte N3IDH reminded everyone of the 5K Run/Walk held in Washington on Labor Day. The race begins around 9:00 AM so everyone who wants to provide radio communication assistance should be in place by 8:00 AM. The 146.79 repeater will be used. Also on Saturday, September 19th there will be another 5K run/walk sponsored by the Youth Group of Immaculate Conception Church in Washington and help is requested there as well. Finally on September 27 the Pittsburgh Great Race is scheduled. It is not known what affect the upcoming G20 Summit will have on the race. Stay tuned.

Contests (K3VX): None mentioned.

Newsletter (W3WN): Another fine effort.

Quartermaster (K3HCR): The tower trailer has been relocated to Carol & Richie's home for storage. A new tarp has been purchased to provide protection from the elements during storage. Thanks to Carol and Richie for offering to provide a home for our trailer.

President's Report (K3VX): Larry has asked about anyone's plans for the 2009 PA QSO Party held this year on October 10 & 11. Preliminary plans include K3VX and W3WH operating from Armstrong County, N3ZK and his usual crowd will again operate from Venango County, W3WN is organizing a multi-op from Allegheny County and N3ZNI is again going mobile.

Old Business: Nothing mentioned.

New Business:

* Due to the scheduled October meeting night also being the same as Peter's Township School District's open house, and the usual lack of parking that occurs, [a motion was placed to move the October meeting to Al's Café](#), as a dinner meeting. Carol Danko will call to make the arrangements. The motion was seconded and approved by voice vote.

Good of the Order - Larry K3VX asked everyone to make suggestions as to what needs to be done to finish the tower trailer. Please submit ideas to him in time to discuss at the next meeting and put to a vote.

Motion to Adjourn: Made by KB3GMN, and seconded by N3ZNI. The motion was voted on and passed. The meeting was adjourned at 19:30 EST.

Program: Homemade fox hunting antenna projects by Larry K3VX.

WASH Spotlight: WACOM



Atlantic Division Vice-Director Tom Abernathy W3TOM, Director Bill Edgar N3LLR, and WPA Volunteer Counsel Mike Lazaroff K3AIR at the 2009 WACOM Hamfest. Note how Mike is exercising his legal expertise in reacting to whatever it is that Bill is saying...

Photo courtesy of & ©Copyright 2009 Ron Notarius W3WN

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 [newsletter at n3sh dot org](mailto:newsletter@n3sh.org)

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

AB3ED	KB3IRQ	N3RDV	WB4GCS	WASH FL	WASH VI
AB3EN	KB3IVW	N3SBF	WO3Z	KA3UPY/MM	NP2JF
AE3DL	KB3IVX	N3TIR		W4ZE	Silent
AC4KU	KB3ORR	N3ZEL	Mary Jean	WASH GA	Keys
K3AIR	KB3SRB	N3ZNI	Senk	K3OL	K3EED
K3AVQ	KB3SVX	N9OKM	Jane	KB3IJX	(George)
K3GW	KC4WTT	NU3S	Wagner	WASH NC	KA3NMG
K3HCR	KE7FD	W3LE		N3RNX	KB3ENX
K3LGM	N1NCZ	W3RJM		WASH NE	KB3FNM
K3SGT	N2QIV	W3RWS		NØPEU	KB3FQT
K3VX	N3AWF	W3SRL		WASH OH	N3FZ
KA3TWI	N3BPB	W3VFA		N8DPW	N3KEH
KB3DCO	N3CZZ	W3WH		WASH TN	N3OBD
KB3GMN	N3DFK	W3WN		KE3XB	N3SKR
KB3GMP	N3FB	WA3JPP		N3YPB	N3SRC
KB3GMU	N3HKQ	WA3NB		WASH TX	N3XFE
KB3HFP	N3PN	WA3RVD		K3LGM	W3ZLK
KB3IAC	N3QMV	WB3CAI		Jane Wagner	

Through August 25th, 2009

List compiled by

Mark Stabryla N3RDV, Vice President/Treasurer

2009 WASH Upcoming Events Calendar

Meeting Topics & Other Significant Club Events — Subject to Change

November 7 th – 8 th	ARRL Sweepstakes CW	http://www.arrl.org
November 12 th	WASH Meeting	To Be Announced
November 21 st –22 nd	ARRL Sweepstakes SSB	http://www.arrl.org
November 28 th –29 th	CQ Worldwide DX Contest CW	http://www.cq-amateur-radio.com
December 4 th – 6 th	ARRL 160 Meter Contest	http://www.arrl.org
December 10 th	WASH Meeting	To Be Announced
December 12 th – 13 th	ARRL 10 Meter Contest	http://www.arrl.org
December 31 st	ARRL Straight Key Night	http://www.arrl.org
January 14 th	WASH Meeting	To Be Announced
January 15 th	WASH Christmas/Holiday Party	Bethel Park VFD
January 16 th	WASH 2 Meter Simplex Contest	http://www.n3sh.org
January 21 st	WASH VEC Exam	Pre-register via n3zel@comcast.net
January 23 rd — 24 th	ARRL January VHF Contest	http://www.arrl.org
February 14 th	BVARA TechFest	http://www.w3sgj.org
February 20 th -21 st	ARRL DX Contest CW	http://www.arrl.org
February 28 th	WASHFest 2010	http://www.n3sh.org
March 6 th – 7 th	ARRL DX Contest SSB	http://www.arrl.org
March 6 th – 7 th	WASH Meeting	Post Hamfest Pizza Night
March 27 th – 28 th	CQ WPX Contest SSB	http://www.cq-amateur-radio.com



Around 5:30 on the morning of October 6th, George E. Smith AA2EJ, of Barnegat, New Jersey, got a phone call that changed his life: He had just found out he had won the Nobel Prize in Physics for 2009 "for the invention of an imaging semiconductor circuit — the CCD sensor."

Smith will share the prize money with two other recipients: Charles K. Kao, of Standard Telecommunication Laboratories in the United Kingdom and Chinese University of Hong Kong in Hong Kong, China, and Willard S. Boyle, of Bell Laboratories.

Each recipient will receive a diploma, a medal and a document confirming their share of SEK 10 million (about 1.4 million US dollars); Kao will receive 50 percent, while Smith and Boyle will each receive 25 percent of the monetary award.

— [ARRL Web Extra](#) courtesy of the American Radio Relay League

The Hams Who Came In From The Cold

N3ZK Venango County, 2009 Pa QSO Party — Photos Page 6 & 7 are Courtesy of and ©Copyright 2009 Randy George N3ZK More Photos Available at http://www.n3zk.com/gallery/main.php?q2_itemid=4851

What can I say. Team N3ZK with 1 member short, set out this year with 1 goal, to beat the current Venango County Multi-Op Points record set back in 2000 by N3JQW at 100,993 points.

We began our journey Thursday evening by leaving Pittsburgh after work and traveling up to my parents house in Venango County. 2 hours later, Frank N3FB and myself were at my parents unpacking the rope and compound bow to get a head start on replacing a lower rope in the main antenna run's tree.

After a quick trip to the beer distributor for some beverages and a jaunt over to Home Depot for some last minute parts for the tennis ball and arrow contraption, we were trying to get this rope replaced before night fall.

First attempt was perfect, that is until I went to lay the bow down to start pulling on the fishing line and when I did, the line broke. Man, that was a perfect shot too. We eventually got the rope in to the tree after dusk and then called it a night for outside work. Do you know how hard it is trying to see black rope when it is dark out? We unpacked the radios and computers and were off late into the night setting those up and getting the logging program ready. Thank god, I was soaking wet!!

Friday came along and we attempted to put a new antenna up this year, a Carolina Windom 160, which turned out to be waaaaaaaaaay to long for the space so we had to take it down and replace it with our normal heavy hitters. We strung end to end a Carolina Windom 80 and a 160 end fed long wire up, which took a little longer than expected due to some minor difficulties with a bow and arrow and a tree. Never seen an arrow bend mid-flight before. That was a new one. We ended up with a Carolina Windom 80, A end fed 160 long wire, a hex beam and a Hustler Vertical. We finished up around 4ish that evening and prepared for the arrival of Kevin N3KFD. After setting him up, we were ready for Saturday.

Saturday started out pretty slow, I sat on 20 meter phone looking for sections for most of the day while Frank was searching for counties and Kevin was paddling away at CW. We had a lot of issues this year with the WB3W logging software. Must've been my Windows Vista. I hate Vista! It kept crashing and was extremely slow. [If only N3FJP would make a network version of his PAQSO software!] It soon picked up as the day went on.

We had a lot of visitors on Saturday including Brian KB3ORR and his girlfriend, Kevin N3KKQ and his wife, Ed N3ZNI and Dave K3LGM (From Texas). Ed and Dave were running mobile in Dave's new ford pickup truck. They had a blast!!

By nightfall, everyone had left but the three main ops. Frank was still searching for counties and multipliers while Kevin and I were hammering away at CW. Points, Points, Points! We ended the evening at 1:00am with approx.



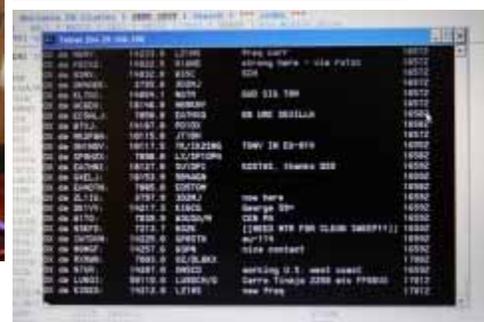
N3ZK & N3FB



N3KFD



KB3ORR



N3HKQ



Gang of 3

Continued on Page 7



W3WN Pa QSO Party 2009



Pictures Courtesy of & ©Copyright 2009 Ron Notarius W3WN

I've been operating in this contest for 35 years, from home, portable, mobile, rover, my call, club calls... this is my first ever Clean Sweep of all Counties. I had a BIG smile on my face all Sunday afternoon!

Thanks to all who operated. Big thanks to W3WH & K3VX, N3ZK & Crew, N3SBF & KB3GMN, N3ZNI Mobile for all of their assistance and for being there.

Special thanks to W3LE, N3HKQ & our Supervisor, Lucy K9FURR, who came over and helped operate; I couldn't have done this without them.

General observations:

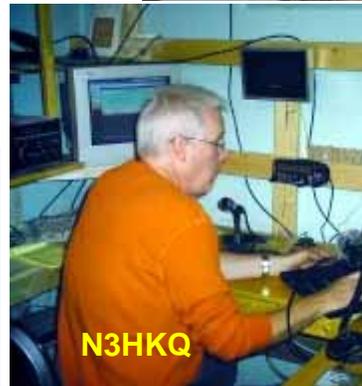
- More radials under the Vertical and Inverted "L" always help. Always.
- Never be afraid to call for counties you need. Sometimes they answer!
- Life (and the contest) are too short to argue with the 75 meter morons who think they own a frequency year round, and who start in with the catcalls, carriers, and so forth. Ignore them if you can, move if you can't.
- "Yellow, A One Two" is not a valid FCC callsign.
- Once again, the Oceana DX Contest CW came through for that otherwise elusive Pacific (HI) multiplier. I know I can always count on the KH6 guys operating in that contest, after midnight on 40 CW!
- On the same token, special thanks to KP2YL for the US VI mult on 15 phone Sunday afternoon. And I know at least one other Pa station worked her!
- How the heck did I get a sweep and some big guns with a lot more Q's didn't?
- I really need to rig up a foot switch on the Corsair, and something other than a hand mike.
- Laptops are great for logging. If you need to switch around operating equipment or operators, just pick it up, move it, and put it back down. Sure beats rebooting a computer!
- W9UK/3 thinks he took Washington County in the CW Only category. Now if we can just talk Jack into submitting a log...
- Will Don Reamer KA3JWE ever resume updating his software package? I looked at the N1MM and WB3W packages, and while they are a lot better for the contest than they used to be, Don's little software project still beats them hands down. I don't look forward to the day when it becomes functionally obsolete.



Had fun working the contest from the mobile down here in South Carolina. The 20 meter band was great and I was able to work Randy up north, Dave N3IDH, and Bob at Steel City. Plus many, many more all over the state. I was using a TS-50 into a ham stick.

Hope you all had as much fun as I did!

— 73, Pete Cole N3RNX



K9-FURR busy supervising... and preparing for a future career with PennDOT

OK, so it's not 100,000 points, but I had a great time anyway!

Call: N3DFK Section: WPA County: Allegheny ENTRY CLASS: SINGLE-OP STATION: HOME STATION POWER: LOW

SSB QSO's = 135 Counties = 61 Sections = 7 Total QSOs = 135 Total Points 135 X Total Multipliers = 68 Total Raw Score = 9180

Special Event Station Bonus = 2 X 200 = 400 FINAL SCORE = Total Score + Bonus Points = 9580

Missed Adams, Columbia, Montour, Philadelphia, Snyder and for some reason Lawrence. Chased different stations around 2 bands but couldn't find one to work.

— 73, Dave Kitzenger N3DFK



Our thanks to everyone who submitted stories and pictures, and of course to everyone who participated in this year's contest! We hope to have some additional pictures and stories next month

A few more pictures of N3ZNI Mobile, taken just before they left on their journey, courtesy of and ©Copyright 2009 Jacqué Gosselin N3ZEL

From left: The Cockpit, The Backseat equipment, K3LGM & N3ZNI posing by the mobile antenna, and the operators starting on their journey

Announcing the Tenth Annual WASH 2M Contest!

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

Everyone who participated in it the last nine 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 16th!

Date & Times: Saturday, January 16th, 2007 from 7 to 11 PM EST.
(That's January 17th 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. For example, they include **N3SH, WA3SH, NP2SH, WA3COM, W3KWH, N3GC, W3PIE, K3CR, W3YA, K3HKK, W3YI, W3VC, W3PGH, W3EXW, K3MJW, NY3EC, W8XK, 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 Ed Oelschlager, N3ZNI
60 Carl Avenue B2
Eighty Four, PA 15330-2829

Enclose a #10 SASE for return of results.

Entry Deadline: February 7th, 2010

Each log submitted with SASE on or before the deadline will receive a main prize ticket to WASHFest 2010 on February 28th

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.



C6APR Ops Perish in Crash

CQ / Worldradio Online Newsroom

Four well-known contesters en route to operate the 2009 CQ World Wide DX Contest SSB from The Bahamas as C6APR were killed October 21st, when their plane crashed shortly after takeoff from South Carolina. The four, all regular operators of the C6APR contest station, were identified as Peter Radding W2GJ/C6APR, the pilot, and passengers Ed Steeble K3IXD/C6AXD, Randy Hargenrader K4QO/C6AQO, and Dallas Carter W3PP.

According to the local [Summerville Journal Scene](#) newspaper, the plane crashed 250 yards east of the runway at Summerville Airport in Jedyburg, South Carolina. The cause of the crash has not yet been determined, but Radding was a very experienced pilot. County Coroner Chris Nesbit told the newspaper that it appears the four were killed by the severity of the crash itself rather than the fire that followed.

CQ WW Contest Director Bob Cox K3EST, called the crash, "a real tragedy," adding that "devoted hams and contesters were lost." The C6APR team was featured in the cover story of April's WorldRadio Online, and Steeble wrote an article in the April 2007 issue of CQ about his experiences as QSL manager for C6APR and for a special Islands on the Air expedition, W2GJ/C6A in 2006.

During the CQ WW DX Contest, the LS1D "Six Stars Contest Station" was hit by a Category F1 Tornado. The station is reported to be a total loss, and several of the operator's vehicles were also damaged. Fortunately, operators LU3CT, LW9EOC, LW1DIO, LW8DQ and LU8EOT were unharmed after taking cover.

[Tim LW9EOC](#) reports that the team expects to rebuild the station and have it operational in time for the CQ WW CW contest. — LW9EOC

6V7SPACE

Daniel Eichenberger 6W7RP & Jan-François Lorne 6W7RV

This first adventure in Senegal ARISS is complete, and it was a great success. This Friday, October 23rd, 2009 at 10:20 in College IV Mbour, we were all present, more or less concerned about the proper outcome of this great challenge. With the support of amateur radio club 6W7PCT Saly, students have made under the special call sign 6V7SPACE, a radio contact with astronaut Frank De Winne from the International Space Station: OR4ISS.

The most visible activity of ARISS is to organize in VHF radio contact between schools worldwide and the International Space Station (ISS), thus contributing to the educational program launched into space by NASA in the USA.

ARRIS also provides the equipment preparation amateur board (transceivers, antennas, laptop ...) which is then installed on the ISS by astronauts themselves.

At 10 hours, the room of the Science Club college of Mbour IV was full of people. At 10:15 am Gaston Bertels telephoned us from Brussels to follow in live those few minutes of communication with the space. At 10:22, Gaston launched the starting signal: no noise in the room and nothing more was that Jan Francois 6W7RV announce into the microphone "OR4ISS, OR4ISS here is 6V7SPACE from Senegal.

Immediately after, Frank de Winne answered the call of the International Space Station. Perfect communication despite the Doppler effect, the students began to ask their questions, listening carefully to the response of the astronaut. And the 23 questions selected by NASA, 21 were submitted by college kids, happy with this extraordinary contact with a manned space station. These are some 8 minutes of questions and answers will remain forever engraved in their memory.

The authorities present as well as journalists and television Senegalese (RTS) were impressed by the great African first, and a thunderous applause end this intense moment for all.

A huge congratulations to Jan Francois 6W7RV, who performed all the technical equipment and has perfectly managed the entire communication with ISS and a big thank you to Alassane 6W1QR, and all students for their impeccable service.

A short report has been broadcasted on the evening news at 20:00 pm and midnight on the RTS network.

We are all very happy and proud to have been able to establish radio contact with the ISS and I thank all those who take part to this experience.

DX News Briefs

"For those wishing to claim credit for October 2009 contacts with **C91VM** (AF-061, AF-066, AF-088), please be aware that, in response to the operator's current published QSL policy, these three operations will not be accepted for IOTA accreditation. Clarification is awaited from the operator that a policy change will be made immediately to the effect that payment of USD 5 is not obligatory and that cards sent direct with sufficient return postage will be answered direct in a timely fashion. A prompt amendment to the policy notice on [QRZ.com](#) is therefore required if accreditation is to be reconsidered." — G3KMA



G3SWH & G3RTE will be active from Christmas Island (VK9X OC-002) 20 — 27 February 2010 as **VK9X/G6AY**. They will be QRV CW only, 80—10 meters (no 160). They plan to have 2 stations QRV whenever propagation permits. QSL via G3SWH. More information [at www.g3swh.org.uk/christmas-island.html](#) — G3SWH

EA4BB is QRV as **Z21BB** on 10—20 meters. He is planning to set up antennas for 80, 40, 30, 12 & 17 "soon". QSL via W3HNK — F5NQL

XRØY will be QRV through 15 November from Easter Island. Priority is being given to CW and RTTY, with some SSB expected. QSL via CE3AA

CT2GQA will be QRV from Guinea-Bissau as **J5GQZ** (20/17) & **J5JUA** (80/40) for the next 5 years. QSL via Home Call — DX Newsletter

N1EMC and N1IW are now QRV as **T3ØKI** & **T3ØIW** through 16 November. They will be QRV 60—6 meters, CW & SSB, 100 watts. No 80 or 160 activity expected. QSL via N1EMC — NG3K

S53A will be QRV as **9J3A** 25—30 November, including an entry in the CQ WW DX CW contest, low power, all bands. QSL via S57S — NG3K

Look for OH6EI as **OHØZ** in the CQ WW DX CW contest as an SOAB HP entry. QSL via WØMM — NG3K

And K9GY will return to the YN2N QTH and be QRV as **YN2GY** in the CQ WW DX CW contest, SOAB LP. He will be using Logbook of the World, but QSL direct if a card is needed — F5NQL

HA5AO will return as **T88CI** 25 November— 10 December. He will be operating "holiday style," 80—10 meters (mainly CW) with an entry planned in the CQ WW DX CW contest, SOAB HP. QSL via HA5AO — HAØHW

The Uruguay DX Group will be active as **VP8BUH** (SSB) & **VP8BUG** (Digital) from the Falkland Islands (SA-002) 14—21 November. They will be QRV on the low bands & WARC bands. QSL via EB7AEY — F5NQL

JK2VOC will be QRV as **BA4TB** 27—30 November & during CQ WW CW, SOAB. QSL via JK2VOC — OPDX

QSL Routes

3DAØMH via GI4FUM — JA1HGY	PYØFF via W9VA — DO1DXX
5B4AIF via EB7DX — W2IRT	SØ4R via EA5RM — W5TFW
5KØT via HA7RY — UA3FDX	S92LX via DK7LX — W4DN
5WØJT via JT1CO — W4DN	T2T via JN1HOW — W7SWL
6W/DL4SJ via DH7WW — W4DN	T6AD via K2AU — PY5EW
7P8YI via DJØYI — JA1HGY	T88ZS via JA2ZS — JA1HGY
7Q7BP via G3MRC — W2IRT	TMØM via F6ANA — W3AWU
A45WD via YO9HP — W4DN	TO8YY via DH7WW — KZ2I
A61Q via EA7FTR — W2IRT	TT8F via EA4AHK — EU7SA
C21TI via EA4ATI — KU4BP	TY5ZR via IK2IQD — LU2DKN
C52C via OM2FY — W4DN	V8AQM via W3HNK — DO1DXX
CCØY via 9A2AA — K6GEP	VK9DWX via DJ2MX — W4DN
9LØW via DK2WW — AA5AM	VK9GMW via HA7RY — UA3FDX
E17M via EI6HB — AA5AM	VK9NI via VK3HR — W2IRT
GB5KIL via GØSGB — DO1DXX	XU7TZG via ON7PP — K2DBK
HR9/WQ7R via AI4U — DO1DXX	YI9X via OM3JW — VE3EXY
K5D via N2OO — KU4BP	YS1MAE via W3HNK - K3LL
OHØR via OH2PM — KRØO	YT5W via YU1BFG — K6GEP
P29NI via G3KHZ — W4DN	ZF1A via K6AM — W4DN
PX6T via PT2OP — DO1DXX	ZK2V via N3SL — JA1HGY

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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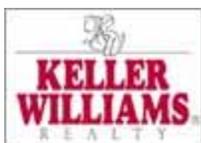
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Antenna Zoning or PRB-1 Issues?

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Has Roadway found the tower yet?

A Friend's Stash

Pat Bunsold WA6MHZ courtesy of www.qrz.com

Rest in Peace, Paul...

Today your wonderful collection was dispersed to the masses.

You were a Packrat just as I am, maybe not on the same scale, but you saved little parts you found here and there, and it was a FEEDING FRENZY at the Swapmeet this morning to claim your Goodies.

I scored a pair of 5894 tubes, an 829B and 2 5763's. A box of JoHansen UHF Variable caps A box of tiny feedthroughs and some Varicap diodes. Oh, 2 MPF102s too.

Then there was your Ebay nab of 5 Walter Ashe catalogs from the 50s/60s. You paid \$17 plus shipping for them. I got them for \$5.

A beautiful book "50 Years of Amateur Radio Innovation" by K9OCO, and, of course, your Rigblaster Plus which only went for \$15. Think you paid around \$160 for it.

I felt kind of dirty violating your stash, but if I didn't get it, the rat bastard behind me would. It was interesting you stored all your small parts in Marlboro cigarette packages. Hundreds of them. I store mine in Cigar boxes when I can find them.

As I went through the piles, I felt more and more guilty. This was the personal Treasures of a good friend. I thought about all the time he had spent collecting them, categorizing them and so carefully protecting them from damage. They arrived safely here at my workplace.

But the vast majority of your stash went to others, or is still unclaimed.

It just may wind up being tossed, even though it is so very very valuable.

I thought about my own stash. It was mentioned to the group doing the selling and they outright REFUSED to handle MY estate. There is just TOO MUCH JUNK for any group to tackle. I estimated they would need 3 full sized moving vans to get it out to the Swapmeet. And that is if they tightly pack it.

I will go home and fondle some of the parts I have collected over the past 40 years. Will they be appreciated by someone as I am appreciating Paul's?

Will People build things out of my collection of parts? Will they put the radios I have acquired into their collections or on the air?

I have this Yaesu FT-101FX here that has become a MONEY PIT. It is closer to working, but 20 meters is still dead on TX, and 10 meters is very lame on TX. Something fishy somewhere, but have yet to find it. Will a ham in the future take this radio to their repair bench and FINALLY conquer the problems, and get it on the air?

Or will it all end up in the DUMP? That is where my wife would rather put it. JUNK IS JUNK, and it needs to be THROWN OUT! All my thousands of tubes, crystals, coils, capacitors, transistors, ICs and diodes. Filling up the earth so someone can build a HOUSE on top of it someday.

The more I look at these few parts, the more I think about Paul. I need to resolve to BUILD something out of the parts he allowed me to acquire from his estate. Build something exciting and fun. So that his LEGACY will live on, and not be resigned to the bottom of a refuse pit. (tears dampening my eyes)

New Privileges for Norway Hams

[ARRL Web Extra](#) courtesy of the American Radio Relay League

As of November 6th, radio amateurs in Norway were granted privileges on three new bands, as well as primary status on the extended 40 meter band and a frequency extension on 12 meters.

According to IARU Vice President Ole Garpestad LA2RR, Norwegian amateurs received new secondary user privileges on 60 meters (5.260-5.410 MHz), the 600 meter band (493-510 kHz) and in five blocks in the 4 meter (70 MHz) band. Amateur Radio operators in Norway will also enjoy upgraded privileges on 40 meters, moving from secondary to primary users between 7.100-7.200 MHz and 1000 W output. Privileges on 12 meters now range from 24.740-24.890 MHz.

Garpestad said that "minor adjustments" were also made in the SHF (3-30 GHz) and EHF (30-300 GHz) portions of the band.

"Congratulations to our Norwegian colleagues," said ARRL Chief Executive Officer David Sumner, K1ZZ. "The new domestic allocations in Norway are consistent with the present and future spectrum requirements for the Amateur Service as determined by the IARU Administrative Council. We hope that other administrations will consider taking similar steps."



WASHfest 2010

The South Hills Hamfest — Now in our **FIFTEENTH** big year!

Sponsored by the WIRELESS ASSOCIATION OF SOUTH HILLS AMATEUR RADIO CLUB, INC.

Sunday, February 28th, 2010

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



(800) 545-8881

Special Guests:

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WPA Section Manager John Rodgers N3MSE
WPA DXCC Card Checker Art Lund NQ3A

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Main Prize tickets are \$2.00 each, 3 for \$5.00, 7 for \$10, 15 for \$20

All Prizes Subject to last-minute changes

For reservations, or information, Contact:

Kevin Smith N3HKQ at (724) 228-4153, or Carol Danko KB3GMN at (412) 884-1466
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: _____

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Membership Application/Renewal for 2010



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

(check quarter _____ →)
(check one !)

	<input type="checkbox"/> 1st Qtr Jan-Mar	<input type="checkbox"/> 2nd Qtr Apr-Jun	<input type="checkbox"/> 3rd Qtr Jul-Sept	<input type="checkbox"/> 4th Qtr Oct-Dec
<input type="checkbox"/> (F1) Full Membership:	\$20.00	\$15.00	\$10.00	\$5.00
<input type="checkbox"/> (F2) Full Membership < 18 or > 65 yrs of age:	\$10.00	\$7.50	\$5.00	\$2.50
<input type="checkbox"/> (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: _____

Address: _____

City, State: _____

Home Phone: _____

Email Address: _____

Call Sign: _____

License Class: _____

Expires On: _____

Work Phone: _____

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:

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Call Sign: _____

Address: _____

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Name & Call Sign: _____

Name & Call Sign: _____

Dues subject to change without notice

Inside This Issue:

- Pa QSO Party Photos!
- WACOM Hamfest Photos!
- 2 Meter Simplex Contest Rules!
- **WASHFest 2010** Announcement!
- What happens when you're looking over the belongings of a friend?
- Upcoming Events!
- Nobel Prize?

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



Where, Oh Where Is That Antenna?

Glen KE7FD has been working on an interesting "[Stake Center](#)" antenna project. If you look carefully, you should be able to see it. More pictures are available on his "Picasa" web site (just follow the link above)

Photo courtesy of and ©Copyright 2008 Glen Roberts KE7FD

The WASHRag

Wireless Association of South Hills, Inc.
Ron Notarius W3WN, Editor
3395 Rosewood Drive
Castle Shannon, PA 15234-2546



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www.n3sh.org
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