



WASHRAG™

www.washarc.org



Volume 6 Issue 1

January 2004

N3SH
WA3SH
NP2SH/B

Wireless Association of South Hills

More Groups Against BPL

NEWINGTON, CT, Dec 30, 2003 — Two organizations have filed comments with the FCC that augment previously expressed worries about potential interference from and to Broadband over Power Line (BPL) systems. Picking up the "grave concerns" the Federal Emergency Management Agency (FEMA) expressed over BPL December 4, the nonprofit Disaster Preparedness and Emergency Response Association (DERA) is calling on the FCC to require impartial BPL field testing as well as additional public comment and full and open public hearings.

"DERA concludes that serious interference to and disruption of critical emergency communications systems in several licensed services throughout North America would almost certainly result from BPL implementation as currently proposed," DERA's comments said. Endorsing FEMA's earlier remarks, DERA said proposed BPL systems don't just pose a risk of interference, they've already been shown to "actually cause harmful interference to licensed radio services."

The Amateur Radio Research and Development Corporation (AMRAD) filed additional test data with the FCC to support its preliminary comments suggesting that BPL systems are susceptible to interference from even modest Amateur Radio HF signals. AMRAD said its data demonstrate that amateur operation in the test neighborhood could cause many homes to lose their Internet service. "At least an area out to a radius of 0.51 miles from the transmitting station could have their Internet connection interrupted," AMRAD said. "Closer-in homes would almost certainly have their Internet service interrupted."

AMRAD conducted an RF susceptibility experiment at the Potomac BPL test site in early November. The site is part of a Potomac Electric Power Company (PEPCO) system test that uses a mid-1960s vintage home with unshielded electrical wiring. The test neighborhood has overhead power lines.

AMRAD found that at a distance of just over one-half mile, data transfer ceased in the face of a 100-W signal on 3980 kHz from a mobile transmitter. Adjacent to the test property, AMRAD said data transfer ceased in all but one instance at a transmitter power of just 4 W in the BPL operating band of from 4 to 21 MHz.

The ARRL hopes to complete an independent BPL engineering study by early 2004. Its will explore how BPL might affect HF and low-VHF amateur operation as well as how Amateur Radio operation could affect BPL systems.

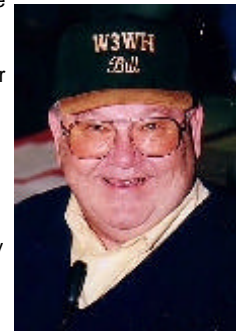
Meanwhile, a Virginia community prepares to go forward with plans to deploy a city-owned BPL network, while a California city has decided against BPL for its

(BPL News Continued on page 5)

Top of the Hill

Happy New Year!!

Aren't we all blessed that every year we get to start over again and see if we can improve on the past. Our Club's record will be a challenge to make better but it's certainly within our grasp — We have great people!



We've done well in the past but there are areas where we can improve. These include:

- ◆ Net attendance — not only attendance but we need more net controllers just for variety's sake.
- ◆ Meeting Attendance
- ◆ Operating events attendance

Do you get the picture? If you'll participate you'll get more from this wonderful hobby and your presence will help everyone else too. Please come because we're going to do our damndest to make it worthwhile for everyone.

- ◆ Programs — What do you want? How about sending an email to Frank, KB3FZU. Frank is going to coordinate our program schedule this year and we may as well have programs you want. He can be reached at: fbobro@wpxi.com.
- ◆ Operating Events — got any ideas or opinions? Send an email to our co-chairman of Operating Events, Larry K3VX lcomden@mindspring.com or Ted W4ZE ted@w4ze.com.

(Top of the Hill Continued on page 3)

WASHFest 2004 in 2 Months!

Are you ready?

Next Meeting: January 8th, 2003

The next monthly meeting of the **WIRELESS ASSOCIATION OF SOUTH HILLS, INC.** will be Thursday, January 8th, at the **Peters Township Library**, 616 East McMurray Road, McMurray, starting at 7:00 PM.

Tonite is election night for the 2004 Officers! And our guest speaker will be ARRL WPA Section Manager Rich Beaver N3SRJ & some of his staff.

Talk-in on the 146.955(-) N3RNX/R and 443.650(+) N3BV/R Repeaters (131.8 PL). All members, guests and interested parties invited!

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

January thru
March NCS
Stations:

- 01/04 Kevin N3HKQ
- 01/11 Hank KB3FNM
- 01/18 Bell Family
- 01/25 Michael KB3HPF
- 02/01 Bill W3WH
- 02/08 Kevin N3HKQ
- 02/15 Hank KB3FNM
- 02/22 Bell Family
- 02/29 Michael KB3HPF
- 03/07 Frank KB3FZU
- 03/14 Bill W3WH
- 03/21 Kevin N3HKQ
- 03/28 Hank KB3FNM

Alternates & Backups
Ron WN3VAW

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

**LOOKING
AHEAD:**

- WASHFest 04
February 29th
- Two Rivers
ARC Hamfest
March 14th
Boston, PA
(new
location)

<h1 style="margin: 0;">January 2004</h1>						
Sun	Mon	Tue	Wed	Thu	Fri	Sat
				1 <i>New Year's Day</i>	2 Elco ARS Meeting	3 RA Erie VE Test WPA Hilltoppers VE Test Somerset Co ARC Breakfast Nittany ARC Coffee Call North Hills ARC Elmer Net
4 Kid's Day Ellwood City ARA Meeting OCWA Pittsburgh Net South One ARES Net North Hills ARC Teen Net Somerset Co ARC Net WASH FM Net	5 Breezeshooters Net 2 Rivers ARC Net Triple 'A' ARA Net Beaver Co Public Service Net	6 Butler Co ARA Meeting Skyview RS Meeting WACOM Net North Hills ARC Net SATERN Net GPVHFS Swap 'n' Shop Net	7 Orthodox Christmas Uniontown ARC Meeting Steel City ARC Social Night Allegheny Co SKYWarn Net Allegheny Co ARES Net Westmoreland Co ARES Net	8 WASH Meeting Beaver Valley ARA Meeting Horseshoe ARC Meeting Uniontown ARC Net	9 2 Rivers ARC Ham 'n' Eggs Breakfast North Hills ARC Breakfast Foothills ARC Breakfast Quad Co ARC Breakfast	10 WASH 2MContest NHARC/Breezeshooters VE Skyview RS VE Test Tri-County CW ARC VE Test North Hills ARC Elmer Net
11 OCWA Pittsburgh Net South One ARES Net North Hills ARC Teen Net Somerset Co ARC Net WASH FM Net	12 Bum of the Month ARL Lawrence Co Breezeshooters Net 2 Rivers ARC Net Triple 'A' ARA Net Beaver Co Public Service Net	13 Foothills ARC Meeting Coke Center ARC Meeting Nittany ARC Meeting Ft. Venango M&K Meeting Punxsatowney Area ARC Mtg WACOM Net North Hills ARC Net	14 North Hills ARC Meeting Laurel Highlands VHS Mtg Butler Co PSG Meeting Steel City ARC Social Night Allegheny Co ARES Net Westmoreland Co ARES Net	15 WASH VE Test Triple 'A' ARA Meeting Somerset Co ARC Meeting Greene Co ARC Meeting Cumberland Valley ARC Mtg Uniontown ARC Net	16 2 Rivers ARC Meeting Quad Co ARC Meeting	17 Mercer Co ARC VE Test Nittany ARC Coffee Call North Hills ARC Elmer Net
18 Elk Co ARA Meeting OCWA Pittsburgh Net South One ARES Net North Hills ARC Teen Net Somerset Co ARC Net WASH FM Net	19 MLK Day Monessen ARC Meeting Breezeshooters Net 2 Rivers ARC Net Triple 'A' ARA Net Beaver Co Public Service Net	20 Steel City ARC Meeting S H B P & M Meeting Tri-County CW ARC Meeting Pymatuning ARC Meeting Juniata Valley ARC Meeting Chestnut Ridge ARC Meeting McKean Co ARC Meeting	21 Huntington Co ARC Meeting Allegheny Co SKYWarn Net Allegheny Co ARES Net Westmoreland Co ARES Net	22 Chinese New Year Uniontown ARC Net	23	24 Indiana Co ARC VE Test North Hills ARC Elmer Net
25 OCWA Pittsburgh Net South One ARES Net North Hills ARC Teen Net Somerset Co ARC Net WASH FM Net	26 Breezeshooters Net 2 Rivers ARC Net Triple 'A' ARA Net Beaver Co Public Service Net	27 Mercer Co ARC Meeting Triangle ARC Meeting WACOM Net North Hills ARC Net SATERN Net GPVHFS Swap 'n' Shop Net	28 North Hills ARC Activity Nite Ft. Armstrong WA Meeting Steel City ARC Social Night Allegheny Co ARES Net Westmoreland Co ARES Net	29 WACOM Board Meeting Uniontown ARC Net	30	31 WASH Breakfast Nittany ARC Coffee Call North Hills ARC Elmer Net

WASH 2004 OFFICERS

EXECUTIVE COMMITTEE:			
President	William R. Hill W3WH	VP / Secretary	Frank Bobro KB3FZU
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 QSL Manager	Paul Lusardi NØVLR	NP2SH QSL Manager	Ed Oelschlagel N3ZNI
VE Team Liaison	Jacqué Gosselin N3ZEL	Webmaster	Bob Sanford AA3FI
Quartermaster	Harold Rosenberger KB3CPI	WASH FM Net Manager	Kevin Smith N3HKQ
WASHFest 2004 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		Kevin DeRose N3KFD
Media Communications	Ben Williams KB3ERQ		
Allegheny Co ARES Representative			
CLUB-AFFILIATED REPEATERS & BEACONS:			
Mt. Lebanon	N3RNX/R	146.955 MHz (-)	PL 131.8
Mt. Lebanon	W3SRL/R	442.550 MHz (+)	PL 131.8
		Echo Link #26861 (courtesy W3SRL)	
Canonsburg	N3BV/R	443.650 MHz (+)	PL 131.8
St. Johns, VI	NP2SH/B	28.276 MHz	
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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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 N3BV/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 15th!

The Next WASH VE exam sessions will be **Thursday, January 15th, 2004, 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 **\$12.00** (payable to: ARRL VEC)

Future test dates: Thursday, April 15th, 2004
Thursday, July 15th, 2004
Thursday, October 21st, 2004
Thursday, January 13th, 2005

On a nice, bright, cool December morning, the **WASH Breakfast Gang** went to get together as usual at **Dietz's Restaurant** in the Caste Village shops in Whitehall... only there was no more **Dietz's!** As noted last month, the restaurant is now under new ownership, and sometime in December the name was changed to the **Your Way Café**. A full house in attendance this month, with KB3FNM & Mary Lou, K3VX, W3SRL, W9UK, W3WH, N3IDH, N3HKQ, WB4GCS, N3ZEL, N3ZNI, & WN3VAW — and coming down from the North Hills to visit (and spend a few minutes trying to find the place!) were N3BPB & KB3JMU. Topics of the morning included directions, vegetarians, new cameras, old computers, the MAQP, selling campers, haircuts, hamfests, bad jokes, speeding tickets, cholesterol levels, old TV, Jeopardy!, car insurance and car repair stories (and we talked about some radio stuff too!)

You never know who's going to show up or what the topic of the morning will be, so don't miss out! The next Club Breakfast will be at **King's Family Restaurant** on Route 19 @ McClelland Road on January 31st, and we will return to the **Your Way Café** in the Caste Village Shops, Grove & Baptist Roads, Whitehall, pre-**WASHFest** on February 28th. See you there!

The **WASH 2 Meter Contest** is almost upon us. We're looking forward to another fun time — and this time (unfortunately) we won't be delayed by a Steeler playoff game, but that's another story. Complete rules are on page 7. Don't forget to mention it on the local repeaters and nets that you check in with from time to time!

No Pittsburgh Marathon 2004: News reports at the end of December indicate that efforts to organize a city-independent Pittsburgh Marathon for 2004 have fallen short for a large variety of reasons. Although it may still be possible for a 2004 Marathon to take place, this is now considered highly unlikely, and organizers hope to be able to bring the event back in 2005. The marathon has arguably been one of the largest ARES events in south western PA for most of the past 25 years, and it is truly a shame that an event like this, along with the annual Great Race in September, was sacrificed by the city administration as a political move to highlight Pittsburgh's budget problems (even though the actual dollar cost to the city for these two events, if any, was a pittance.) It's also worth noting that this summer's Pittsburgh Vintage Grand Prix, another major event that is served by about 100 Amateur Radio volunteers, appears to be unaffected by the city's problems and will continue as planned. The PVGP was able to stave off a City takeover by a previous administration years ago, something that the old Marathon was unable to do.

So long... club members received a shock in mid-December when Bryan K3OL noted on the email reflector that he has accepted a new job out of town, and that he and his family (including Christopher KB3IJX) are moving to Savannah, GA. Bryan is one of those guys you could always count on, almost always present at club functions to help out and get the little things done that make the events work. Amongst many other things, he served for over a year as FM Net Manager, helped us locate the site for last summer's club picnic, and may be best known for his special link to the North Pole for our annual Santa Claus net. Take care Bryan, and know that you will be missed.

WASHFest is coming in just under two months as this newsletter is going to publication. Our ninth annual hamfest... can you believe it? In an era when hamfests are withering on the vine or disappearing all together, we've been able to keep our little event going and going strong! But that doesn't mean that we can just sit back and wait for it to unfold. It doesn't take much effort to keep **WASHFest** going each year, but it does take some. Prizes have to be procured, publicity put together and parcelled out, flyers flown in the mail, table reservations taken, all sorts of preparations need to be taken care of — and then come the 29th (remember, the LAST Sunday in February, this year there are five!) tables to set up, vendors to help, a talk-in station to man, coffee to brew, tickets to sell... all little things that don't take much time, but all important little details that will continue to make our event a success. So do what you can to help out... let Steve W3SRL or the rest of the hamfest committee know what you can do to help and when, and we'll chalk up another successful event to start the year off right!\

Don't forget, it's that time of year again: January means it's time for your annual dues. Dues, along with hamfest proceeds, provide the funds that let the club do what it has to for the year. If you're not shown on the next page in Bold Black, then please send your dues in today (forgot to pay last year or longer? That's OK, just send in the '04 dues and we'll be happy — of course, if you really want to pay back dues, that's fine too!)

(Top of the Hill Continued from page 1)

Right now we need to concentrate our efforts on making our fourth annual 2 meter simplex contest and the 9th Annual **WASHFest** successful. Things are looking good for the Hamfest. We received valuable guidance from the membership on prizes and I'm pleased to announce that Carol Danko, KB3GMN and Kevin Smith, N3HKQ have both ASKED to join the **WASHFest** Committee! This is really good news and we need more cooperation and participation just like this.

What do we have to look forward to in 2004? For starters there's a new contest in May called the Mid Atlantic QSO Party (May 8th & 9th) It will involve 5 or 6 States. K3VX will have details soon. That's the only thing that's new that I absolutely know of. But what do you think of this idea: How about one big picnic for all the Pittsburgh Ham Clubs? Think about it and give me some feedback.

That's it for now folks. I'm looking forward to this year. I hope we're going to do a lot as a Club and mostly I hope we're all going to have lots of fun.

— 73, Bill Hill W3WH, President
Wireless Association of South Hills, Inc.

The Radio Advisory Board of Canada (RABC) plans to recommend to Industry Canada (IC) that 220-222 MHz be transferred from the Amateur Service to the Mobile Service.

The RABC will ask that IC keep 222-225 MHz a primary exclusive amateur allocation. It also will recommend grandfathering amateur repeaters in the 220-222 MHz segment, to continue operation for a period of time.



From the archives:

A very proud Bryan K3OL looks on as Christopher (soon to be KB3IJX) passed his Technician license, and is handed his CSCE by Ed N3ZNI, at our VE test session in July 2002.

Good luck to both of you in Savannah!

Photo courtesy of and ©2002 Jacqué Gosselin N3ZEL

Join WASH or Renew your Membership for 2004 Today! Membership Application on Page 11!

Minutes, December 11th Meeting

Frank Bobro KB3FZU, VP/ Secretary, **WASH**

Bill, W3WH, **called** the meeting **to order** at 19:00 hours. There were 31+ members and guests in attendance.

This meeting was held at Al's Café and was the Christmas party, and Bill, W3WH, the new president, announced that the business portion would be postponed until the January meeting. Bill thanked Shawn, NØPEU, for an excellent job as 2003 president and he also thanked Ron, WN3VAW, for an excellent job putting together a first class newsletter, that recognition was seconded by all in attendance. Thanks were also in order for Carol, KB3GMN, for organizing and Ed, N3ZNI, and Jacque, N3ZEL, for helping with the Christmas Party.

The winners of the Chinese auction were:

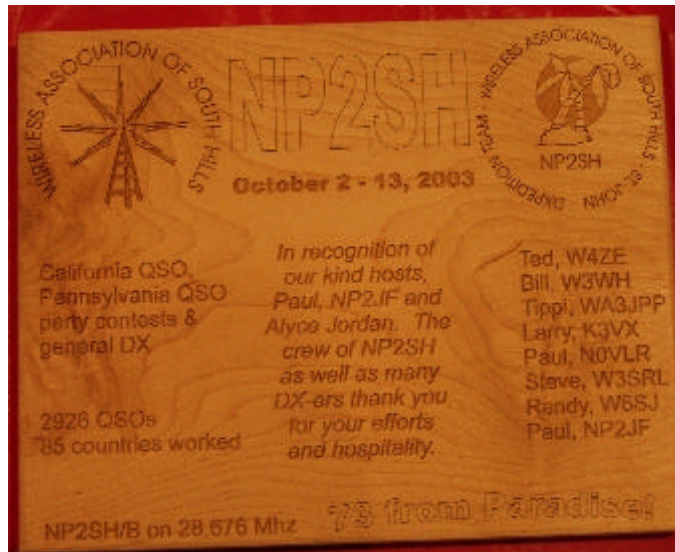
- World Radio Subscription: Dan, KB3HVN
- World Radio Subscription: Herman, N3AWF
- Wild Bird Feed: Ritchie, N3SBF
- Soup Basket: Jacque, N3ZEL
- Homeowners Tool Kit: Jim, WB4GCS
- Tools: Bill, N3XFE
- Tools: Dave, N3IDH
- Tools: Bill, W3WH
- Club Logo Shirt (by Dan, KB3HVN): Ed, N3ZNI
- Club Logo Shirt (by Dan, KB3HVN): Linda Hill
- Outback Dinner Certificate: Paul, NØVLR
- Scarf: Linda Hill
- AES Gift Certificate: Ted, W4ZE
- Giant Eagle Gift Certificate: Bill, N3XFE
- Cordless Drill: Bob, W3RJM



Carol KB3GMN, along with her helpers Kara and Jessie, picking the winning tickets for the Chinese Auction.

Photo courtesy of and ©Copyright 2004 Dan McCann KB3HVN

WASH Spotlight



The NP2SH team displayed this plaque at the Christmas party prior to shipping it to the Jordans as a small "thank you!" for hosting the DXpedition. Trust me, the picture does not do this gorgeous plaque justice!

Photo courtesy of & ©Copyright 2004 Dan McCann KB3HVN

Monthly WASH Breakfast Saturday, January 31st

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 together!

Starting in 2003, we will be alternating our breakfast locations every month to make it easier for club members to get to at least one of them:

Join us this month at the **Your Way Café**, Baptist & Grove Roads in the Caste Village Shops, Whitehall, and next month at **King's Family Restaurant**, Route 19 at McClelland Road, Cannonsburg. Start time is about 8 AM until whenever.

Monitor 146.955 & 443.650 for talk-in or any last minute changes. All are welcome, **WASH** members or not, amateurs or not! See you there!

Wireless Association of South Hills Membership

AA3FI	KB3GMO	KE7FD	N3SBF	W3JAF	Barbara Mistic
AA3JS	KB3GMP	KE8RN	N3SRC	W3RJM	David Delmonico
AB3AB	KB3GMU	KQ3DX	N3TBK	W3RWS	
K3BZW	KB3GOT	NØPEU	N3UE	W3SRL	Silent Keys
K3JDS	KB3GZG	NØVLR	N3UIW	W3VE	K3EED
K3OL	KB3GUZ	NØVPV	N3VEH	W3VFA	KB3ENX
K3PCF	KB3HFP	N2QIV	N3WPT	W3WH	KB3FQT
K3VX	KB3HVN	N3AWF	N3XI	W4ZE	N3KEH
K3WR	KB3IAC	N3BSQ	N3YPB	W8LEV	N3OBD
K9LZ	KB3ICC	N3CZZ	N3YQY	WA3JPP	N3SKR
KA3PPH	KB3IJX	N3FZ	N3ZCG	WB3BPH	W3ZLK
KA3TFB	KB3IRQ	N3HKQ	N3ZEG	WB4GCS	
KA3UPY	KB3IVW	N3IDH	N3ZEH	WB3GTL	Color Codes:
KA3WZO	KB3IVX	N3INT	N3ZEL	WN3BOJ	2004 Member
KA3YTS	KB3QX	N3KFD	N3ZNI	WN3VAW	2003 Member
KB3ANH	KC2JJB	N3PN	N4MIS	WO3Z	2002 Member
KB3CPI	KC4WTT	N3QMV	NP2JF		2001 Member
KB3DCO	KC6VLV	N3RDV	N8DPW		(2000 and earlier members no longer displayed)
KB3EPI	KD3JV	N3RHT	W3GEL		
KB3ERQ	KE3XB	N3RNX	W3HND		
KB3FNM					
KB3FZU					
KB3GMN					

Back Issues of the **WASH**Rag have a new home on the web:

www.djernes.org/washrag

Thanks NØPEU for providing the new site!

Through December 31st, 2003

List compiled by

Mark Stabryla N3RDV, Vice President/Treasurer

Just What is a Fan Dipole?

Alan Applegate KØBG courtesy of www.eham.net

There seems to be a difference of opinion on what is or isn't a fan dipole. It is the intention of this article to set a base line for the description and thus not mislead a newcomer to our hobby.

The single element dipole is by far the cheapest and easiest antenna to erect. Since it can be made from a variety of materials it remains the most ubiquitous of sky hooks. It consists of two 1/4 wave length sections fed in the center with coax and configured in an inverted V, flat V; in straight, bent or dog legged fashion; and one which can be strung horizontally or vertically. The use of a balun is optional, but recommended. The center support and end insulators can be made from just about any non-conducting material you can name. Literally thousands of articles have been written about them, and just about anything you need to know about building one can be found in the ARRL Antenna handbook.

Just for the record, a multi-band, open wire (or ladder) line center fed, single element dipole antenna is more correctly called a doublet as the antenna is only a resonant dipole on one frequency. A manner of semantics perhaps, but like I said we need to differentiate between the various types.

As the old cliché goes, there is no free lunch and the bane of a dipole is limited bandwidth especially on the lower bands. Over the years a lot of experimenting has been done to increase the bandwidth of a dipole. As evidenced by the proliferation of antenna couplers (incorrectly called antenna tuners) in recent years, most increased bandwidth schemes add to the complexity in terms of supports, tuning, and real estate. This didn't (and doesn't) stop a lot of folks from giving it a try.

An article appeared in Radio News just after WWII describing an 80-meter "Fan Dipole" which had multiple legs, each of a different length. The antenna was fed with home brewed ladder line, which was connected to an adjustable link tank on the transmitter end. Bandwidth was touted to be the whole band and this is certainly true considering the broad range of matching capability an adjustable link tank has.

Circa 1948 brought several more articles describing other techniques to increase bandwidth on 160, 80, and 40, the "in" bands in those days. One used five separate dipoles all cut to the same length and spread apart in a fan, and another with five dipoles all cut to slightly different lengths and arranged in a fan. Both delivered on their boast of increased bandwidth at the expense of complexity.

Latter-day "Fan Dipoles" have not stayed the course with respect to single-band operation. Raytheon for example makes one which is essentially a log periodical set of dipoles and intended to cover a large part of the HF spectrum. Because the elements are arranged in an hour glass shape, its resemblance to a "Fan" is a hard to fathom and a misnomer.

So if we intend to use the term "Fan" to describe an enhanced bandwidth dipole, then it's use to describe a multi-band dipole is erroneous and misleading. For the record, a multi-band dipole is one that has two or more dipoles cut for different bands and fed from just one coax. The fact that it may be arranged in a fanned out pattern doesn't change the basic premise.

Whether you agree with the basic premise or not, describing the same antenna by several different and misleading names is confusing for all. Let's all endeavor to keep the aforementioned in perspective and skip the misleading nomenclature, which is all too prevalent in our hobby.



From the 2003 Christmas/Holiday Party:
Photo courtesy of & © 2004 Dan McCann
KB3HVN



From the 2003 Christmas/Holiday Party:
Photo courtesy of & © 2004 Dan McCann KB3HVN

(BPL News Continued from page 1)

own municipal broadband system.

The city council in Lompoc, California, a community of some 42,000, opted December 16 to go with a wireless and fiber optic cable-based broadband network, rejecting BPL and other possible options. ARRL Santa Barbara Section Technical Coordinator Paul Andreasen, K1JAN, said he and other members of the local Amateur Radio community lobbied hard to ensure that Lompoc would not pick BPL.

After contacting Lompoc Mayor Dick DeWesse to spell out the downside of BPL, Andreasen said he subsequently received assurances from City Manager Gary Keefe that Lompoc's consulting engineers would not entertain technology that would radiate in the HF/low-VHF spectrum. The report from McKibben Consulting noted the "ongoing controversy" about BPL, a form of power line telecommunications (PLT), and cited a British Broadcasting Corporation (BBC) study earlier this year that, McKibben said, "made it clear that there is very good reason to be concerned about RF interference." The consultant concluded that BPL's advantages failed to outweigh its disadvantages.

Lompoc's so-called "Wireless Plus Base Model" system would cost upward of \$27 million, starting with the deployment of a wireless broadband network followed up with running fiber optic connections to every home and business in the city. Andreasen says at least one other locality has indicated it will follow Lompoc's lead.

The Washington, DC, suburb of Manassas, Virginia, meanwhile, indicates it will go ahead with plans to inaugurate BPL service in four subdivisions — a total of some 2100 homes— in January. Manassas, with a population of nearly 35,000, hopes to be the first community in the US to deploy BPL citywide. It will charge residents \$26.95 a month for the service, a cost only slightly higher than typical dial-up Internet service and substantially less than the cost of cable modem or DSL service.

Amateurs in the Manassas vicinity have pointed to FEMA's "grave concerns" that BPL could interfere with HF communications systems critical to national security and public safety. They've also cited Japan's banning of BPL deployment in the wake of Amateur Radio pressure as well as the BBC study, where the BPL system used the same Main.net technology Manassas plans to employ.

City officials seem unimpressed. "Nobody has proven it's a problem," City Councilman Ulysses X. White told *Potomac News*. "If it is a problem, then we re-evaluate it. There's no reason not to go forward with it." The same article quotes City Utilities Director Allen Todd, W4VUB, as saying that the city will monitor the system and rectify any problems that crop up. No field testing for RF interference took place during the system's pilot program.

Potomac News also quoted ARRL CEO David Sumner, K1ZZ, saying that the risk of disrupting worldwide and emergency communications for BPL is shortsighted and, as FEMA has noted, carries potential national security implications.

— Courtesy of the American Radio Relay League

Online Auction Bidding: Buyer Beware!

Brian Davenport K4FAU micronta@aol.com courtesy of www.eham.net

I have been working as an electronic repair technician for the last 23 years.

The point of this write up is not how to repair electronic apparatus. I personally think that trying to repair anything made in the last 5 years is sort of like looking under the hood of my 2003 Chevy truck — I have trouble finding the dipstick let alone repair any component that makes the engine work! Half of the items that are sent to us is because someone has seen some modification on the web they thought they could do to increase their power or bandwidth and WHAM! — there goes the circuit board. The point of this article is to help people from getting ripped off when buying ham equipment off the net. I have seen a sharp increase in the amount of people bringing in junk they purchase on eBay in order to get it to work.

This is not an eBay slamming article. eBay in and of itself is great.

Unfortunately I don't get to meet the happy satisfied eBay customers. I meet the people that purchased items that turns out to be a brick you just paid \$500 for that's worth nothing.

Have we gotten ripped off -- yep just last week -- bought a HT that the seller gave a great write up on -- problem is that he failed to mention that the squelch is stuck open and the volume is stuck at one level -- fortunately the cost for us to fix it internally was a few cents but the cost to an outsider would have included shipping, technical help and parts cost coming to \$62.77 -- the bottom line is if the guy on the other end of the Internet ad is a liar then you re going to get screwed, but if he is only stretching the truth them maybe the following can help.

A couple of rules though:

- 1) If the item is too good to be true then it probably is.
- 2) If the seller or buyer is out of country — avoid — too many costs, scams.
- 3) Check the seller's feedback. If the seller has sold less then 10 items then be on alert. The majority of scams are from people with less then 10 feedbacks. They sell junk, get negative feedback, change name and do again.
- 4) If the buyer has negative feedback against him on any item — drop both the seller and the buyer of the negative feedback item in question a note asking them to explain what happened. People that get screwed usually like to share this info with others.
- 5) Search the item for past sells on eBay — then check what the seller has purchased and sold in the past. If he is now selling the same item he only purchased a week ago — the odds are it does not work and he is just trying to pass on his non-functional junk.
- 6) Look at the type of items he has sold in the past. Does he mainly sell ham equipment or comic books? If a person's feedback shows he has never sold or bought any type of ham equipment, then why all of a sudden does he have a transceiver for sale?
- 7) Be careful about getting into a bidding war. Know your limits. We saw where the same person Yada4yada (0) had bid on the last 3 items that a guy had put on eBay yet never won any of them. The seller was simply signing in under another name (Yada4Yada) and running the price up in a bidding war. So be leery against bidding against people with (0) or even (1) or (2) after their name and especially (-1).
- 8) Is the picture a real picture or a picture downloaded from a website? If it's a real picture is the equipment turned on and operational? Can/will he send more pictures to you?

Over half of the folks that we deal with that got ripped off never asked any questions. They just bid, paid, and got taken.

Here is a list of basic questions that no seller should mind answering if he is legitimate. Once again, this is to help you get the truth from an honest person — if the person is simply a liar, then he will lie about the answers.

- 1) Why are you selling this?
- 2) Are you the original owner?
- 3) Has this equipment been modified? If so by who?
- 4) When was the last time that it was turned on and operated?
- 5) When was the last time it was serviced, by who?
- 6) Is there anything at all that is wrong with this that you know of?
- 7) Do all the switches, lamps and buttons work?

One thing we did notice that in most of these things that people put on eBay that turned out to be junk, the write up included some of the following:

- 1) "Selling for a friend"
- 2) "From an estate sale"
- 3) "I don't know anything about these radios but..."

- 4) "I don't have a license so I can't tell you if it works/transmits properly"
- 5) "Not sure if there have been any modifications done"
- 6) "Last time it was used it was operating perfectly"
- 7) "Sold AS-IS" (My favorite disclaimer to watch out for.)
- 8) "I've been told that it works great"

Bottom line is that you would like to call and ask about the equipment in person, check that the equipment has been on air recently, and that the seller knows about the equipment and can answer questions. Anyone could easily put a transceiver on the market today that he does not actually have or a piece of junk he got out of the dumpster, take your money, and you have no recourse. If you complain to eBay he will say that he sent the equipment or that it was working great when he boxed it up and that UPS or YOU caused the damage -- then its your word against his, and when you finally leave negative feedback he will simply get a new sign-in name and start again...

And finally — make sure that the seller insures the radio for what it takes to replace or fix in case of catastrophic damage. If the radio is valued at \$700 and the seller only insures it for \$100 to save some money and it gets broken in transit -- then one of you is going to be out more money to repair the item.

Remember, UPS and FedEx will only cover what the package is insured for, and even then, will weigh you down with mass amounts of paperwork and questions making you prove that the radio was working and something that the shipper did is the cause of the radio not to work. UPS and FedEx have been doing this for a long time and has seen many, many times a bad seller was trying to convince the recipient that the radio does not work because of shipping damage and not because the seller sold you a brick.

K4UCF Evicted

Following fall semester final exams, the University of Central Florida in Orlando, FL removed the UCF Amateur Radio Club's K4UCF's towers and antennae on the Math & Physics Building (formerly the Engineering building) on December 15th, 2003. The procedure took about 4 hours at a cost of about \$6000 to the University Provost. The club and the station had been located in the building for over 30 years.

According to the UCF ARC website, <http://ucf.edu/~wb4tcw> "From visual inspection and asking the contractors removing the towers, no damage was found on UCFARC's equipment which could be classified as lightning damage." The administration had cited the alleged and apparently non-existent lightning damage as the primary reason for removing the antennas and evicting the club from their office space. (Allegations have been made that the real reason for their removal was esthetics: the University President disliked seeing them from his window and wanted them removed.)

The University of Central Florida no longer has an Amateur Radio Station, however, the club is still active. For more details on their situation visit their website.

— information courtesy of Eric Heard KU4TF and Mike Potaczala KC4NUS



From the 2003 Christmas/Holiday Party:
Photo courtesy of & © 2004 Dan McCann KB3HVN



From the 2003 Christmas/Holiday Party:
Photo courtesy of & © 2004 Tippi Comden WA3JPP

Reminder!

Fourth Annual **WASH 2 Meter Contest**
Saturday, January 10th, 2004 7 – 11 PM EST
(Sunday, January 11th 0000 – 0400 UTC)
Hope To See You There!

9N News

9N1AA and my efforts to expand ham radio in 9N land including a memorial club station for 9N1MM are on indefinite hold due to disturbed social and political condx there. All radios and other gear and cash that was donated some years ago have been distributed to the existing licensed native 9N hams (cash used immediately upon donation to purchase needed items like coax and Morse keys, etc.). That gear will come back to a club station someday.

Foreign visitors have operated there, as you know. Please bear with this situation and extend understanding.

— Charles Harpole K4VUD

WASH Apparel Updates!

Dan KB3HVN & OGS Distributing are continuing to work on the upcoming web page link to permit WASH club members to order shirts, jackets, hats, and whatever direct from the club web page.

But in the meantime, if you still have one of the light blue SHARC "baseball" style windbreakers (these were the "2nd generation" jackets that Steve W3SRL handled the orders for, about 5 – 6 years ago) hanging in the closet collecting dust, good news! Dan has come up with a patch to "update" the jacket to the new WASH logo. Cost for the patch is \$9. The patch will be sewn directly onto the jacket; additional embroidery if desired at a small additional cost.

For more information, contact Dan & OGS Distributing at
412-655-8787

DX News Briefs

Australians started off the new year with an increase in the **VK 75 meter phone band**. They can now use 3776 – 3800 kHz (it used to be 3795 – 3800 kHz) — K9RZ, VK2CZ



The **TO4E/TO4WW** team returned home just prior to Christmas. The team was frustrated by lack of power, operating restrictions and bad weather. Still, they managed 34,000 QSO's in ~200 hours operating time. Logs at http://europa2003.free.fr/europa_2003-e.htm — F5CQ

World traveler **UA4WHX** has returned home from a 7+ month journey around the Pacific, activating a large assortment of IOTA and DXCC entities. QSL via his new address: Vladimir M. Bykov, 426000 Izhevsk, p.o. box 2040, Russia. If you have any questions, you can contact him at ua4whx@mail.ru, or call: +7 3412 25 88 29, between 1700 and 1900 UTC. You can also QSL via his US call AC4LN direct or via the bureau, but that route will take much longer — UA4WHX

CQ Magazine has announced that N5FG is the new manager for the CQ WAZ awards program. He replaces K5RT who steps down after four years — CQ

Many EU amateurs are reporting that due to recent postage hikes, \$1 is no longer sufficient to cover return postage for international mail. 1 IRC or \$2 is now required — SM5DJZ, K4HB

K5YG is no longer the manager for **9H1PF** and **P28KPH**. 9H1PF should now be QSL'd direct, P29KPH as directed by the operator — N5FG, K5YG

Logs for **TYA11** from 19 to 21 June 1981, and for **KX6PO** 10 June – 14 December 1983 are now available on Logbook of the World — W9OL

XU7AAA plans to be QRV through January 7. QSL via PO Box 10,003, Vientiane, Laos — J16KVR, KF2TI

A new **UA2 QSL Bureau** is now in operation. The address is: UA2 QSL Bureau, ROSTO Technical School, ul.Ozyornaya 31, Kaliningrad, 236029, Russia. QSL Cards for UA2 stations should now be sent only to this address, not via Box 88 Moscow. That includes these prefixes: **UA2, RA2, RK2, RU2, RV2, RX2**, plus **R2MWO** (permanent callsign for the Museum of the World Ocean) and contest station **RW2F** — UA2FM, KC1F, OPDX

XU7ACY has been assigned to NO2R. He expects to be QRV January 5th – 12th on 160, 80 & 40 meters exclusively. QSL via K2NJ — VA3RJ

XF4IH will be QRV from Socorro Island for two weeks starting March 3rd. The 8 operators, all XE's, will be active on all bands and modes including satellites and V/UHF. QSL route to be announced — XE1KK

KG4DX will be QRV January 13th – 19th. QSL via W4WX or LotW — W4WX

29 operators will be QRV as **3B9C** starting March 20th. They will be fully operational, 15 transmitters, all bands and modes, through April 12th and QRT by April 14th. More info at www.fsdxa.com/3b9c — 425 DX

Please QSL **4L1AE**, **4L1W** and **4L5T** direct to LY2MM and not via the LY bureau, as the bureau now charges him to forward their cards — LY2MM

The Sir Francis Drake Report:

The **TO4E** team reports that their call was pirated on November 28th from about 2115 to 2353Z on 40 CW, just prior to the CQ WW CW contest — N5FG

QSL Routes

1A0KM via IK0FTA — IK0FTA	FO0MOT via OM2SA — K1NU
3C1DX via EA6BH — W9OL	HC8/N1KO via W1ZS — N7SEJ
3D2MO via OM2SA — W9OL	KG4WW via KX4WW — DL1SBF
3XY1L via UY5XE — JF1LZQ	KH8/KM9D via OM2SA — W4YCH
5R8FU via SM5DJZ — W4YCH	OM5M via OM3BH — W9OL
5T5U via JA1UT — LU7DR	PX0F via PY5XX — PY0ZF0
5Z4BL via DL2RUM — JF1LZQ	SU9NC via OM2SA — W4YCH
6W/SM0JHF via SM0JHF — N5PHT	SX9G via SV2DGH — N5PHT
6Y5/4S7RO via G0IAS — 4S7RO	T5X via DJ6SI — YU1NA
7Q7WW via KD6WW — N4KG	TF4RX via KT6YL — W9IXX
7W4HI via OM3CGN — OM3JW	TF8GX via KT6YL — W9IXX
9J2KC via JL1NJC — W9OL	TG0AA via TG9AXF — TG9AJR
CN8KD via EA5XX — DL1SBF	ZK2MO via OM2SA — K1NU
CY9A via W1TE — W9OL	ZM8CW via ZL1AMO — W9IXX
D4B via K1BV — N9BOR	ZS1EL via K4YL — N9BOR

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 **WASH**Rag. 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 **WASH**Rag or the **WIRELESS ASSOCIATION OF SOUTH HILLS, INC.**

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CT Version 10 Now Available!

Version 10 of K1EA's famed contest software program has been released. It supports the NAQP and NA Sprint and includes conversion utilities for databases stored in Version 9. It can be downloaded for free from www.k1ea.com.

Support is courtesy of the CT reflector, ct-user@contesting.com

— Ken Wolf K1EA courtesy of Jim Reisert AD1C



FYI Networks, an Internet Service Provider in Pittsburgh and surrounding areas since 1995, is offering all members of **WASH** their Basic Internet account for only \$18 / month. This includes one e-mail box, 3 MB of disk space, web page hosting, Telnet and FTP access. Call FYI toll-free at 1-877-

FYI-4NET, or e-mail them at sales@fyi.net, for more details or to sign up. You **must** mention that you are a member of the **WIRELESS ASSOCIATION OF SOUTH HILLS** to get the discount rate.

FYI Networks now also provides sDSL service in selected areas. **WASH** Members can get DSL for the discounted rate of only \$47.50/month. A pre-qualification must be done to see if your address is in the DSL coverage area.

Call John Vasicek at 412-488-7800 for more information about FYI sDSL services & benefits.

Many thanks to FYI Networks for making these special offers available to us for the past seven years!

FCC News

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

NEWINGTON, CT, December 12th, 2003 — The FCC on December 14 will unveil a new on-line filing interface for its Universal Licensing System (ULS), which includes the Amateur Service. In order to implement the changes, the ULS on-line filing system will be down from 12 AM EST Saturday, December 13, until 10 AM EST Sunday, December 14. Among other features, the ULS's new look will include updated, easier-to-read on-screen forms that guide users through filing processes and simplify such routine tasks as applying for license renewal, address change or vanity call sign. Screens also will offer context-sensitive help and a list of "common questions" for a given application process. The FCC says the introduction of its new system, called "ULS License Manager," is part of an ongoing ULS overhaul.



"As part of a continuing effort to improve the Universal Licensing System, the Wireless Telecommunications Bureau (WTB) announces the end of phase one of a multi-phased process to extensively redesign ULS online filing," the FCC said in a news release. ULS License Manager also will incorporate a new filing "wizard" for anyone using FCC Form 605 for any purpose. Form 605 is the primary ULS application form that amateurs and four other WTB-administered services use. The FCC says there has been no change to the data applicants will have to supply for Form 605.

Perhaps more important to amateurs is that ULS License Manager will be compatible with most, if not all, major Web browsers and computer platforms and no longer will require downloading *Java* and *Java Script* files. Screens also will be compliant with Web screen-to-voice reader software.

An FCC staffer involved with implementing ULS License Manager notes that all features may not be in place when the system debuts.

The ULS will require all filers to log into the system using an FCC Registration Number (FRN) and Commission Registration System (CORES) password. "Taxpayer Identification Numbers (TINs) will no longer be accepted for login purposes," the FCC said.

There's more information on FRN/CORES on the FCC Web site. Those who already have registered a Taxpayer Identification Number with the FCC — a Social Security number for most individuals — do not have to register again.

Along with the on-line ULS changes comes a new paper version of FCC Form 605, dated December 2003. The new paper form contains few differences from the one most new amateur applicants now complete. One change is that it no longer requests a date of birth and will only accept an FRN and CORES password. There are no Amateur Service-related changes to any Form 605 schedules.

The FCC says Amateur Service applicants may continue to use the March 2001 (or later) edition of Form 605, although it encourages use of the new version. The new December 2003 edition of FCC Form 605 now is available via the FCC Web site or through the FCC's Right Fax service, 202-418-0177.

To assist with any ULS issues after the changeover, the Technical Support Hotline staff will be available Sunday, December 14, from 10 AM until 6 PM EST. Normal hours are weekdays (except holidays) from 8 AM until 6 PM Eastern Time. Technical Support is available via the FCC Web site or telephone 877-480-3201 (TTY 202-414-1255).

ULS licensing support and forms information is available weekdays (except holidays) from 8 AM until 5:30 PM Eastern Time via e-mail or telephone 888-CALLFCC (225-5322), Option 2 (users also may call 717-338-2888).

Once the new system is up and running, the FCC says, all licenses and applications in the ULS database will be converted to the new ULS License Manager filing environment.

Dayton Hamvention® 2004 University of Dayton Room Reservations

Greg KQ3DX has again reserved six suites again at the University of Dayton for Hamvention 2004. Those who've stayed there the last few years know how nice they are! If you are interested in joining us this year, please contact Greg at kq3dx@hotmail.com for more information.

Now in our NINTH big year!



WASHfest 2004

The South Hills Hamfest

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

Sunday, February 29th, 2003

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

**Breakfast & Lunch provided
by Jack's Catering
of Peters Township**

**FREE Coffee for the entire Hamfest
courtesy of HAM RADIO INSURANCE ASSOCIATES
of Canonsburg, PA**

MAIN PRIZE DRAWING at 2 PM—You've Got to play to WIN!

- 1st Prize: ICOM IC-706 MkIIIG**
- 2nd Prize: MFJ Antenna Analyzer**
- 3rd Prize: LDG Automatic Antenna Tuner**

Additional Hourly Door Prizes!

Main Prize tickets are \$2.00 each, or 3 for \$5.00 — All Prizes Subject to last-minute changes

For reservations, or information, Contact:

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.washarc.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 = _____

Please make all checks payable to:
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897 Lovington Drive
Pittsburgh, PA 15216-1725

We reserve the right to resell any tables not occupied by 8 AM, unless prior arrangements have been made!



WIRELESS ASSOCIATION OF SOUTH HILLS, INC.

Membership Application/Renewal for 2004



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 (F1 or F2 or A1 dues x 20% 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: _____

Signature: _____

Amount Enclosed: \$ _____

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

Wireless Association of South Hills, Inc.

Order Form for "The TLC Embroidery Company"

Embroidered Shirts and Hats

Quantity	Item/Description	Size	Color	Unit Cost	Net Cost
Sub-Total					
6 % Sales Tax					
Total Enclosed					

<u>Available</u>	<u>Cost (S M L XL)</u>	<u>Cost (2X 3X 4X)</u>
Golf Shirts	\$20.00	\$22.00
Rugby Shirts	\$20.00	\$20.00
Light Jackets	tba	tba
Lined Jackets	tba	tba
Hats	\$10.00	\$10.00

Club logo is not currently available on the hats due to size limitations. Contact TLC Embroidery for more information.

Prices, availability & available colors subject to change without notice.

Use additional sheet(s) if necessary

Make checks payable to Sharon Cox
Mail to: The TLC Embroidery Company
366 Dry Ridge Road
West Alexander, PA 15376

Phone: 724 - 484 - 7703

Inside This Issue:

- **WASH** Christmas / Holiday Party Photos!
- Words of Caution for eBay Users!
- K4UCF Evicted!
- More Joining the BPL Fight!
- Rules, 2004 **WASH** 2 Meter Contest!
- **WASHFest 2004** Is Coming **Feb. 29th**!

**All this and more...
waiting for your right
inside these pages!!!**



Santa, Eat Your Heart Out!

A look at some of the Chinese Auction items at the WASH Christmas/Holiday Party.

Thanks again to all who donated prizes for this year's auction, and to Carol KB3GMN & Jacqué N3ZEL for organizing it!

More pictures from the party inside!

Photo courtesy of & ©Copyright 2003, 2004 Dan McCann KB3HVN

The **WASH**Rag

Wireless Association of South Hills, Inc.

Ron Notarius WN3VAW, Editor

946 Sleepy Hollow Road

Castle Shannon, PA 15234-2222



N3SH / WA3SH

NP2SH/B

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