



WASHFest 2001's Coming!

Not quite two months away is the **6th Annual South Hills Hamfest — WASHFest 2001**, Sunday February 25th, 2001.

As you've heard at meetings and on the nets, we're striving to make this the best hamfest we possibly can. This year, we're renting the second exhibit hall this year and will be sponsoring forums there starting at 9:00 AM and VE Exams starting at 1:00 PM.

Why go to all the extra trouble and hassle? Because too many hamfests around the country have become little more than electronic flea markets (and sometimes junk ones at that). Many hamfests last year, well, didn't do so good. Some did very poorly compared to years past — and some just didn't happen at all. We held our own and in terms of attendee and vendor satisfaction, had a lot of happy folks leaving the CSVFD Memorial Hall by the end of the day.

Many hamfests were originally intended to be Amateur Radio mini-conventions, a chance for local and regional hams to get together and compare notes and swap tall tales. The forums are in part our attempt to help do just that. We want people to stick around, chat, and have a good time — not to make another buck or three off attendance, but because that's part of what a hamfest should be.

To that end, **Ham Radio Insurance Associates** of Canonsburg are sponsoring the coffee pot, so everyone in attendance on February 25th can enjoy free coffee for the day on HRIA's nickel.

VE Testing is another service we're adding this year to help attract potential new hams and those who'd like to upgrade. We might need help from some extra VE's since so many club members will be involved in the hamfest itself, so if you know of someone who might be able to help out, ask them for us.

And let's not forget the DXCC Field Checking from Mike K3AIR too!

We have something really great to build on for the entire year — so that we can be more than just the first hamfest in the area.

*73, Ron Notarius WN3VAW, President
Wireless Association of South Hills, Inc.
N3SH/WA3SH*

Next Meeting: January 11th, 2001

The next monthly meeting of the Wireless Association of South Hills, Inc. will be Thursday, January 11th, at the John McMillan Presbyterian Church, 875 Clifton Road in Bethel Park, starting at 7:00.

Guest speaker for the night is still up in the air, but we'll be going over WASHfest plans and other plans for the coming year.

Talk-in on the 146.955(-) N3RNX/R and 443.650(+) N3FFP/R Repeaters (131.8 PL). All members, guests and interested parties invited!

One Week to Contest!

Assuming the mail works out right, you should be getting this issue of the WASHRag about a week before our First Annual 2 Meter FM Contest. Complete rules are on Page 4 AND the log sheets are available for download from the web site.

We're asking all club members to help spread the word in the SW PA area — any nets you check into, casual QSO's, etc. — to help drum up interest and activity. There's a lot of both, but there's also a lot of people who either haven't heard about it, or haven't had a recent reminder and may be forgetting the date's almost on us. So bring it up whenever you can!

And have fun & good luck!

Kevin Smith N3HKQ talking about AMSAT OSCAR 40 at the WASH Christmas Party. Kevin will be doing the AMSAT Forum at WASHFest 2001! (WN3VAW Photo)



Inside this issue:

Amateur Radio Calendar	2
WASH Club News	3
Last Month's Meeting Minutes	4
Hollow State Ramblings	5
Christmas Party Photos	7
DX New Briefs!	8
WASHFest 2001 Announcement	10

January 2001

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

- WASH Digital Net, 9:30 PM Sunday Nights 28.105 MHz RTTY & PSK31

- WASH 2M Simplex Contest Jan. 13th (Page 4)

LOOKING AHEAD:

- WASHFest 2001 Feb. 25th, 2001 (Page 10)

Sun	Mon	Tue	Wed	Thu	Fri	Sat
	1 New Year's Day Breezeshooters Net Beaver Co Public Service 2 Rivers ARC Net Triple 'A' ARA Net	2 Butler Co ARA Meeting SHBP&M Meeting Skyview RS Meeting North Hills ARC Club Net SATERN Net	3 Uniontown ARC Meeting Steel City ARC Social Nite Allegheny Co ARES Net Allegheny Co Skywarn Net Westmoreland Co ARES	4 WACOM Meeting RA Erie Meeting	5 Elco RS Meeting	6 ARRL/BOARS Kid's Day RA Erie VE Tests WPA Hilltoppers VE Tests Nittany ARC Coffee Call North Hills ARC Elmer Net
7 Ellwood City ARC Meeting WASH FM Net WASH Digital Net QCWA Pittsburgh Net	8 Bum of the Month Lunch AR League of Lawrence Co Breezeshooters Net Beaver Co Public Service 2 Rivers ARC Net Triple 'A' ARA Net	9 Foothills ARC Meeting Nittany ARC Meeting Ft. Venango M&K Meeting Triple 'A' ARA Tech Class North Hills ARC Club Net SATERN Net	10 North Hills ARC Meeting Steel City ARC Social Nite Allegheny Co ARES Net Westmoreland Co ARES	11 WASH Meeting Horseshoe ARC Meeting Triple 'A' ARA VE Tests Beaver Valley ARA Meeting	12	13 WASH 2 Meter Contest Skyview RS VE Tests Tri-County CW VE Tests 2 Rivers Ham/Eggs Brkfst North Hills ARC Elmer Net
14 WASH FM Net WASH Digital Net QCWA Pittsburgh Net	15 Monessen ARC Meeting Breezeshooters Net Beaver Co Public Service 2 Rivers ARC Net Triple 'A' ARA Net	16 Steel City ARC Meeting Tri-County CW ARC Mtng. McKean Co ARC Meeting Juniata Valley ARC Meeting North Hills ARC Club Net SATERN Net	17 Huntington Co ARC Mtng. Allegheny Co ARES Net Allegheny Co SkyWarn Net Westmoreland Co ARES	18 WASH VE Tests Triple 'A' ARA Meeting Greene Co ARC Meeting Somerset Co ARC Meeting Steel City ARC Dinner	19 W2I Special Event 2 Rivers ARC Meeting	20 W2I Special Event ARRL VHF Contest Nittany ARC Coffee Call North Hills ARC Elmer Net
21 W2I Special Event ARRL VHF Contest Elk County ARC Meeting WPRC Meeting S.Strabane WASH FM Net WASH Digital Net QCWA Pittsburgh Net	22 Breezeshooters Net Beaver Co Public Service 2 Rivers ARC Net Triple 'A' ARA Net	23 Mercer Co ARC Meeting Triangle ARC Meeting Triple 'A' ARA Tech Class North Hills ARC Club Net SATERN Net GPVHFS Swapn'Shop Net	24 North Hills ARC Activity Steel City ARC Social Nite Allegheny Co ARES Net Westmoreland Co ARES	25 Chinese New Year WACOM Board Meeting One Month away! WASHFest February 25th!	26 CQ 160 Meter CW Contest	27 WASH Breakfast - Eat'n Park Kirwan Heights CQ 160 Meter CW Contest Lockport ARC Hamfest North Hills ARC Elmer Net
28 CQ 160 Meter CW Contest MD Mobileers Hamfest WASH FM Net WASH Digital Net QCWA Pittsburgh Net	29 Breezeshooters Net Beaver Co Public Service 2 Rivers ARC Net Triple 'A' ARA Net	30 Triple 'A' ARA Tech Class North Hills ARC Club Net SATERN Net GPVHFS Swapn'Shop Net	31 Steel City ARC Social Nite Allegheny Co ARES Net Westmoreland Co ARES	2/1 WACOM Meeting RA Erie Meeting	2/2 Groundhog Day Piratefest 2001 Elco RS Meeting	2/3 Piratefest 2001 Nittany ARC Coffee Call North Hills ARC Elmer Net

WASH 2001 OFFICERS

Executive Committee:			
President	Ron Notarius WN3VAW		
VP/Secretary	Paul Lusardi NØVLR		
VP/Treasurer	Mark Stabryla N3RDV		
And We Couldn't Do It Without:			
N3SH / WA3SH Trustee	Steve Lane W3SRL		
N3SH / WA3SH QSL Manager	Paul Lusardi NØVLR		
VE Team Liaison	Jacque Gosselin N3ZEL		
Webmaster	Bob Sanford AA3FI		
Quartermaster	Harold Rosenberger KB3CPI		
N3SH/WA3SH WASH Net Managers			
FM Net (2 Meter & 70 cm)	Bryan Beyer K3OL		
Digital (10 Meter)	Mike Serowik N3BSQ		
WASHFest 2001 Co-Chairman (South Hills Hamfest)	Steve Lane W3SRL		
Operating Events Chairman	Bill Hill W3WH		
Field Day 2001 Chairman	Bill Hill W3WH		
Ways & Means	(open)		
Media Communications	Carol Danko		
	(open)		
Club-Affiliated Repeaters:			
Mt. Lebanon N3RNX/R	146.955 -	PL 131.8	
Mt. Lebanon W3SRL/R	442.550 +	PL 131.8	
Canonsburg N3FFP/R	443.650 +	PL 131.8	
N3SH/WA3SH WASHNet, the weekly on-air net of WASH, meets every Sunday Night, 9:00 PM ET, on the 146.955 & 443.650 repeaters. The 10 Meter Digital N3SH/WA3SH WASHNet meets on 28.105 MHz at 9:30 PM ET following the conclusion of the FM net. (Frequency is +/- QRM) All radio amateurs, WASH members or not, are welcome to join!			

THE LEGAL STUFF

"The WASHRag™" (formerly "The Mariner™") is the Official Newsletter of the **Wireless Association of South Hills, Inc. (WASH)** Published Monthly with occasional Special Editions as warranted. This issue is © Copyright 2001 by the **Wireless Association of South Hills, Inc.** Editor & Publisher: Ron Notarius WN3VAW Member, Amateur Radio News Service

Comments, articles, and requests for copies of or information about "The WASHRag™" should be mailed to the editor:
Ron Notarius WN3VAW,
3505 Rosalia Avenue, Castle Shannon, PA 15234-2317.
Email: wn3vaw@fyi.net or wn3vaw@arri.net

"The WASHRag", "The Mariner", SHARCfest, South Hills Hamfest, WASHfest, WASHfest 2001, N3SH Net, WA3SH Net & WASH Net are ™ trademarks of the **Wireless Association of South Hills, Inc.**

The **Wireless Association of South Hills, Inc.** was founded in 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, its members, or its actions in any way shape or form.

As always, special thanks to the owners of both the N3RNX/R Repeater System and the N3FFP/R Repeater System for permitting the **Wireless Association of South Hills, Inc.** and its members to use their repeaters for club purposes.

WASH Amateur Radio Club News Briefs

Next WASH VE Test January 18th!

Our Next VE exam sessions will be **Thursday, January 18th, 2001**, at **7:00 PM**, at the *John McMillan Presbyterian Church*, 875 Clifton Road, Bethel Park, PA. Talk-in on 146.955 MHz. 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 Jacqu  Gosselin N3ZNI: 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 \$10.00 (payable to: ARRL VEC)

AMSAT OSCAR 40 resumed transmitting telemetry on Christmas Day following a 12 day silence. Ground stations are again in command of the satellite and AMSAT staff are analyzing the data to try and figure out what happened, what if anything is damaged (there are questions about the two meter transmitter) and what to do next. AMSAT plans to hold an inquiry into the matter so that a similar accident doesn't happen again.



Santa Claus himself took a moment during the Santa Net on Christmas Eve to snap this picture of K3OL in action. (Photo  2001 Bryan Beyer)



Congratulations

To the entire Wireless Association N3SH 2000 Herr's Island Expedition Crew! N VLR, N3ZEL, N3ZNI, W3RJM, N3RNX, KE3XB, W3WH, W3SRL, KB3ENX

Ah, Paul, what kind of chads were those again? Congratulations are in order to Paul N VLR and Annette N WPV. Yes, Harmonic #6 is on the way! Sounds like they got that addition put on their house just in time! (And Paul THOUGHT he was getting a new radio room out of the deal, too...)

Christmas Eve Santa Net: At the Christmas party, Bryan K3OL proposed having a Santa Claus Net in place of the regular club net on Christmas Eve. Despite only two weeks of notice, the net successfully connected 7 children with Santa at the last minute. Thanks to all who participated, and special thanks to Bryan for making the arrangements to have Santa visit on that very busy night. Incidentally, we've already been asked by some of the participating hams to do the same thing again next year!

Speaking of the Christmas Party, we had over 30 club members and family attending, a great presentation by Kevin N3HKQ, and a fantastic time as always. Thanks as always to Carol Danko for organizing the evening and making sure no one went away hungry!

Media Communications Chair Wanted: We're looking for someone to help with mass media contacts and communications. This is someone who would handle sending club meeting, test, and other activity announcements to the local newspapers, broadcasters, cable outlets, and so forth. No experience necessary! Contact WN3VAW, N VLR or N3RDV if interested.

ARES/RACES Liason Wanted: Mark N3RDV is now Net Coordinator for the weekly Allegheny County ARES/RACES net (congratulations Mark!) so we're also looking for someone to take over as the WASH Liason to the net. The liason represents the club during the weekly nets and when it's our turn, acts as Net Control (or arranges for a club member to fill in for him when he isn't available). Contact WN3VAW, N VLR or N3RDV if interested.

Club Shirts & Hats: With just under two months to go before the hamfest, it's a good time to remind you that getting and wearing a club-logo'd shirt at WASHFest will not only look sharp, but will identify you as a member of one of the (arguably) best clubs in the area! Order form for TLC Embroidery is on Page 11, but give Sharon a call at (724) 484-7703 to discuss specific needs — we understand that TLC can get almost any style or color of shirt or jacket, just ask first! Order now to avoid the rush!

Web Space Crisis Averted: Our webmaster, Bob AA3FI, has been kind enough to donate some of his personal server space on www.hky.com to house the club web pages. But recently we've been running into space problems as hky is enforcing user space restrictions. So until some other arrangements can be made (ye editor is waiting for Stargate to call him back about DSL!) only the last 6 months of WASHRag's will be available for download at www.washarc.org. If anyone needs an older issue, all they need to do is drop an email to wn3vaw@arri.net and it will be sent on it's way within a day. It's a touch inconvenient, but like PennDOT orange barrels, it should only be "temporary."

The last word: Don't forget that this page is supposed to be news for and about the club and club members. If you have something to contribute for next month, just drop a note to wn3vaw@arri.net

WASHFest 2001 — 6th Annual South Hills Hamfest — Sunday February 25th, 2001
2001 Dues are NOW DUE! Don't put it off, renew your membership today!

Minutes, December 14th Meeting

Paul Lusardi NØVLR, Vice President/Secretary WASH

There was no formal meeting due to the annual Christmas party. A total of 30 people were in attendance, including WASH members and their families and guests.

The brief informal meeting was called to order at 19:15 local time by WN3VAW. The following announcements were made:

- An Atomic 24 Hour Clock/Temperature Gauge/Calendar was donated by an anonymous club member to be raffled off, for the benefit of the club. Paul NØVLR volunteered to run the raffle (thanks Paul!). \$30 was raised, the winning ticket was selected by Christopher Beyer (after being carefully examined for dimpled chads) and the clock was won by Ed N3ZNI.
- Hamfest plans are on schedule. Paul NØVLR has been in contact with a caterer who has agreed to provide food at the hamfest; he will be in touch with Carol Danko to discuss the particulars.
- The December 25th club net will begin at 8 PM, not 9 PM, and will be a Santa Claus Net. Club members and other area amateurs will be invited to check in with children who wish to make last-minute requests of Santa. Bryan K3OL has volunteered to have Santa operate from his home.
- A question was asked by several members as to the current UK call of former member N3LAP.
- Ed N3UE brought up the idea of an Outgoing QSL Bureau for club members and volunteered to act as the Outgoing QSL Manager.
- A reminder that 2001 Dues are now due!

At the conclusion of announcements, WN3VAW thanked all for coming and thanked Carol Danko for organizing the party.

Following was a presentation on AMSAT and Oscar 40 communications by Kevin Smith N3HKQ.

First Monthly WASH Breakfast — Saturday, January 27th



Please join us for the first WASH Breakfast! We're going to get together on the LAST Saturday of every month for a chance to informally sit down, shoot the breeze, compare notes, and just have a good time together!



We'll be rotating the location until we find one that suits most everyone. This month, we'll be at the **Eat 'n' Park on Noblestown Road** (Route 50) in Kirwan Heights, next door to Peter's Place at Vanadium Road, just off the I-79 interchange. Start time is about 8 AM until whenever. All amateurs, WASH members or not, are welcome! Hope to see you there!

Wireless Association of South Hills Membership

AA3FI	KB3ENX	N3RDV	N3YQY	W3HND	Carol Danko
AA3JS	KB3FQT	N3RHT	N3ZCG	W3RJM	Dan Mohr
K3BZW	KE3XB	N3RNX	N3ZEG	W3SRL	JoAnn Cottrill
K3LIE	KQ3DX	N3SBF	N3ZEH	W3VFA	Marilyn Nizinski
K3OL	NØPEU	N3TBK	N3ZEL	W3WH	
K3VX	NØVLR	N3TES	N3ZNI	WB3BPH	K3EED (SK)
KA3TFB	NØWVPV	N3UE	N4MIS	WN3BOJ	N3KEH (SK)
KA3TWI	N2QIV	N3UIW	NP2JF	WN3VAW	W3ZLK (SK)
KA3UPY	N3BSQ	N3VEH	W3GEL		
KA3WZO	N3CCC	N3VVL			
KB3CPI	N3IDH	N3VWF		Annual Dues Paid	
KB3DCO	N3KFD	N3WPT		Through December 31 st , 2000	
KB3DSB	N3MJQ	N3XFE		List compiled by	
KB3DSD	N3OBD	N3XI		Mark Stabryla N3RDV	
KB3ECD	N3QMV	N3YPB		Vice President/Treasurer	

Announcing: The First Annual WASH 2 Meter Simplex Contest!

DATE AND TIME: Saturday, January 13, 2001 from 7 to 11 PM EST. (That's January 14 0000-0400 UTC to the purists!)

OBJECTIVES: To make as many contacts as possible (within an ~150 mile radius of the Point in Pittsburgh). To have fun!

BAND AND FREQUENCIES: The contest will take place solely on 2 meter simplex. The frequencies are: 146.535, 146.550, 146.580, 147.525, and 147.540 MHz. The National Simplex Frequency, 146.520, is NOT to be used.

POWER LIMIT: Maximum 50 watts output.

EXCHANGE: Callsign, location and contact number. For the purposes of the contest, "location" is the community (township, borough, city, municipality, etc.) and county you are located in. Locations outside of PA should include the State (see examples below). WASH members will also indicate that they are members.

Example 1: "N3ZEL from N3ZCG, please copy Number 3, Mt. Lebanon, Member."

Example 2: "K3CR from N8AA, please copy Number 21, Euclid, OH."

CONTACTS: Work as many different calls and locations as possible, giving Exchange as noted above. Work each station ONCE per location — Mobiles can be reworked whenever they change location. Remember tops of hills work best.

SCORING: Each Contact, non WASH Member:	1 point
WASH Member:	2 points
WASH Club Stations N3SH or WA3SH:	3 Points
Multipliers: Number of locations	
Power: Stations running 10 watts or less:	2
Stations running over 10 watts:	1
Final Score: Total Points x Locations x Power	

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.washarc.org.

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
Ed Oelschlager, N3ZNI
P. O. Box 254
Meadow Lands, PA 15347-0254.

Enclose a SASE #10 for return of results.
Entry Deadline: February 8th, 2001

Each log submitted with SASE on or before the deadline will receive a raffle ticket to WASHFest 2001 on February 25th!

Hollow State Ramblings : Mechanical TTY Adventures Part 2

Don Merz N3RHT

CONCLUSION: Fire! A Visit With Morry, And Bringing It All Together

Like many of us, I have quite a number of radio projects awaiting my tender touch. So at this point in my TTY adventures, I had a moment of angst over whether I wanted to continue with this or change gears to work on something else for a while. But the RTTY challenge was just too interesting to let it just sit there so I decided to play this out to the end and see what happens.

Now that I was planning to visit Morry, I had to consider that he might ask some questions about the other stuff he had given me. In particular, I worried that he might ask about the nice Model 15RO (RO = Read Only, no keyboard) that I hauled away the last time I was there. The truth was that I had never done anything with it. It looked to be in nice shape except for the fuse holder (which held an old-fashioned household screw-in type fuse) which had been smashed somehow. But Morry had provided me with an exact replacement which I had never installed.

I figured this would go quickly and be fun so I went over the old 15 lightly with grease and oil. I replaced the fuse holder and purchased some fuses at a local hardware store. Lastly, I ran it through its paces by hand to make sure that it had no obvious mechanical faults. None were observed so I boldly plugged in the 15 and was gratified to see it spring to life...or maybe not. It wouldn't stop printing the number 4 and it rung the bell with every keystroke. I was rooting around looking for possible causes of this behavior when I noticed an odd glow coming from the rear of the machine. In a flash the glow was a full-fledged flame as a short of some sort ignited the oil-soaked insulation on a wire bundle. Fire! I quickly unplugged the machine and smothered the fire. Sure glad the wife didn't see that...

It turns out that whatever had smashed the fuse holder had also damaged the connections to a solenoid. One lug on the back of the solenoid, apparently carrying the full 125 VAC line power, must've been hanging by a thread and just fell off when I was running the machine. It touched ground, the fuse did not blow and the wire heated enough to ignite the oil-soaked cloth insulation. What a mess. I Dremel-machined a new lug piece and installed it on the solenoid, re-soldered the wires, plugged in the 15 and it promptly blew a fuse. Either I did something wrong in my repair which is not obvious or the wires are shorted in the semi-charred wire bundle. Drat. Now I have to tell Morry how incompetent I am. Sadly, I returned the 15 to its table and slid the cover over it with same motion used to close a casket.

On the drive out to Morry's house, remembering the way as I go, I am thinking that I want to get his advice on lubricating the machines. I want to ask for any Teletype tools that he may have so I can properly adjust the mechanicals and I'd gladly take anything he wants to throw my way, especially a decent loop supply to save me having to refurbish that decrepit REC-29 I have.

I have my oldest boy with me (Evan, a 16 year old horse with a strong back) to help with the lifting (if any). When we get there, Morry's wife welcomes us and we head down to the basement to find Morry in a QSO on what looks like a TenTec Scout. But Morry says it is a QRP version of the Scout called a Model 721 (I think) that omitted the RF amplifier stage — very cute. He has just completed machining a nice stationary gas engine that he says burns Coleman lantern fuel and also shows off a gorgeous steam boiler that also looks recently completed. He asks me what I'm up to and I explain that I have been working to bring my TTY stuff to life and have space for some more if he wants to unload some.

Right away, Morry begins scanning the shelves of the packed basement. Stuff is everywhere — all sorts of stuff: heavy square and round raw steel stock used for machining, racks of bins full of small parts, workbenches crowded with tools, huge metal lathes and other metal working tools that I don't recognize, HP and TEK 'scopes on carts and much else. In one corner, we face a set of wooden shelves full of a Jumble of everything you can think of, power tools, cans of grease and machine oil, Collins S-line chassis, obscure military surplus and Teletype stuff. Morry pulls off several boxes of tools and parts, plus an interesting test set that continuously sends any one character. The tools include feeler gauges, special hex wrenches with long handles and other stuff I have seen only on Teletype manuals. He explains each item to me and hands it all over to Evan to start to stack the goodies by the door.

Another set of shelves yields a Teletype 2B "Simplex" machine that looks to be in nice shape. Unfortunately it uses 3/8" wide tape which is pretty scarce these days. Morry digs out 3 BRPE tape punches — extremely high speed units in a small package. I have seen these before and they are not very useful except in a high-volume TTY shack. A nice-looking Model 14 goes on the pile after having some bright blue rat poison scraped off the base. All the while, Morry keeps up a running commentary and history. He has a lot to tell and probably more than one story behind every device.

Next we go to the garage where we pick up a BE-77A, a Teletype Model 43 ASCII terminal and — lo and behold — a Western Electric loop supply, small brown wrinkle box with a 2 amp rating — just what I am looking for. By now, almost 2 hours has elapsed and I am thinking we are wrapping this up but Morry suggests we explore the attic. Great idea! There he finds some model 43 paper and ribbons and a huge, floor-standing tape punch and reader that takes giant 20" spools of tape and, bless the stars, a beautiful Model 15 KSR machine on a pre-war Teletype 15N wooden table. Neat! There's more including a 28 with a 3-speed gear shift and a 33RO machine, modified for 5-level use in a small sound-proofed box. Morry says it came out of CIA HQ at Langley, VA, but there are no marks on it to indicate its' heritage.

We get the stuff outside and Morry shows me the intricacies of the floor-standing tape machine. It is a fine looking beast with separate gear shifts for 60-75-100 speed on both the perforator and the reader. That will be fun to play with. But Morry's real hobby now is computers and we get into some long discussions about CD-writers and such modern stuff. Evan is into it but that's what I deal with at work every day so I'm not anxious to pursue the hobby aspect of PCs. I offer to help with various problems. But you can tell that Morry wants to solve them on his own.

Finally we depart with the minivan loaded end to end. Boy that car never smelled better—even when it was new.

Most of the stuff that Morry gave me has to wait its turn and so we unloaded it into the garage. A strong teenager was a very helpful accessory in this process — highly recommended! The Model 15 is another matter entirely — he came straight into the house and immediately displaced the Model 15 that "burnt down" on the matching Teletype XRT table. The 15 is in stunning condition and looks brand new.

Getting the cover off, I turn the motor by hand and am rewarded with a smooth motion and notice a polar relay mounted on the rear — hmmm... I have read about these but this will be my first actual attempt at "polar exploration." I lightly lube the 15 all over. But it seems basically ready to go. Now back to that loop supply.

A quick examination shows that the Western Electric loop supply that Morry gave me is not actually a loop supply at all. It's really a 110 VDC motor supply for DC-driven Teletype machines. The give away is that the output socket is the type that matches the "motor" socket on the model 15 ESU in the XRT table. Also, the WE supply needs the same treatment as the REC-29--selenium rectifier replaced and electrolytic reformed. But what the heck, this will be easy. And sure enough, after an afternoon of cap reforming and bridge rectifier replacement, the WE supply is happily pumping 110VDC again.

Now to bring it all together. I used the correct 110VDC loop supply plug from the REC-29 on the WE loop supply so that it would plug into the ESU in the Model 15 XRT table. So my local loop is the military TS-2/TG test set sending THE QUICK BROWN FOX etc...to the Model 15 at 60 speed. The voltmeter shows 110VDC in the loop. Fire up the TS-2 and watch it spin madly. What's this? I can hear the polar relay responding to the signal in the loop even without the Model 15 turned on. So I power up the Model 15 and clackity-clack it is printing ... JUMPED OVER THE LAZY DOGS BACK... Success!

The Model 15 is missing some letters and mis-typing some others (as in "LA4Y" above) but I don't care. It's great to see it all going. The kids are gathering round to see too and the spark in their eyes is matched only by the rapid-fire questioning: What's that doing? Who is printing that? Where's the computer screen? Why is it so loud? Why is it typing the same thing again? Can it do color? You mean this stuff actually works? I answer the serious ones and laugh at that last one--yes, it all actually works--once you know the secrets!

POSTSCRIPT: The Model 15 needed some work on the automatic carriage return. But this is being resolved from the burnt-up "parts unit" that I now have in the garage. Tom Kleinschmidt pointed out that the Kleinschmidt military machine I have is equivalent to the SCM/Kleinschmidt 150 civilian teleprinter and it is set up for 60 speed. It too now runs fine. I also experimented with different voltages out of the WE "loop" supply. The Teletype REC-xx supplies and this WE supply I have can be jumpered for different output voltages. I fiddled with these jumpers and discovered that higher settings seem to give the most reliable selector magnet operation.

(Continued on page 9)

Marconi Challenge 2001

Courtesy of Bill Edgar N3LLR, Vice Director, Atlantic Division

Guglielmo Marconi pioneered wireless telegraphy using electromagnetic waves at a wavelength of about 1500 meters and succeeded in sending a signal with kilowatts of power across the Atlantic Ocean in 1901. The Marconi Challenge is to send an infrared (IR) signal at a wavelength of approximately 900 nanometers with milliwatts of power to a detector over the largest room-sized distance.

Standard equipment for the Marconi Challenge is a single Radio Shack High-Output Infrared LED (Light Emitting Diode) part number 276-143 as a Transmitter and a single Radio Shack Infrared Phototransistor part number 276-145 as a Receiver. A selection of resistors, a Volt-Ohm Meter (VOM), and any optical apparatus would also be needed.

The Infrared LED as the Transmitter can be powered by a single nominal 1.5 Volt battery. The voltage drop that appears across the LED is about 1.2 V and the maximum current is 100 milliamperes (mA). The Marconi Challenge limits the LED current to no more than 75 mA, which will be measured during the Competition. You should use Ohm's Law ($V = I R$) to determine the appropriate series current-limiting resistor RLED. The cathode of the LED is connected to the negative terminal of the battery. The positive terminal is connected to RLED and the other lead of RLED is connected to the anode of the LED.

The Infrared Phototransistor is a NPN silicon device with two terminals: collector and emitter. As little as a single nominal 1.5 Volt battery can be used to power the Phototransistor as the Receiver. An appropriate series load resistor RLOAD (start with 1000 ohms) is connected from the positive terminal of the battery to the collector of the Phototransistor. The emitter of the Phototransistor is connected to the negative terminal of the battery. The received voltage signal VRCV of the Marconi Challenge is then measured with the VOM across the collector and emitter terminals of the Phototransistor.

The Competition of the Marconi Challenge is to produce a measurable received signal VRCV over the greatest distance between the LED transmitter and Phototransistor. The measurable signal is defined as at least a 10% change in VRCV from that due to ambient light VAMB as the LED transmitter is keyed ON and OFF, simulating a Morse code transmission. The Phototransistor will respond to ambient light and designs are suggested to minimize this affect. The Marconi Challenge will be held in a darkened (overhead lights off) lecture room.

Designs include choosing a value for RLED to provide the required current and a value for RLOAD that maximizes VRCV without saturating the received signal because of the ambient light. Several, switch selectable values of RLOAD can provide a dynamic range for the Receiver. The Phototransistor may exhibit better performance if a battery supply voltage of greater than 1.5 Volt is used, but the supply voltage is limited to less than 10 Volts. The Marconi Challenge transmits infrared light and any method (other than fiber optics) can be used to focus and capture the optical transmission. The Infrared LED claims to have a viewing angle to half-intensity of 45 degrees. This spreads the available signal, but an optical system can be used to decrease the viewing angle. The infrared LED can also be physically modified if required. The single Phototransistor can use any optical collection system to maximize VRCV and minimize ambient light.

The Competition will be held in the College of Engineering Building, 12th and Norris Streets, Philadelphia, on Saturday February 24, 2001

The Engineer's Week 2001 Competition for High School Students
Sponsored by the College of Engineering, Temple University

starting at 10:00 AM. Lunch will be provided for participants. Tours of the engineering laboratories and computer facilities will be available. Prizes include \$100 for first place, \$50 for second place and \$25 for third place. Duplicate Prizes will be awarded to Temple University students.

Make your reservations now! Reservations and questions can be directed to:
Prof. Steven Ridenour 215-204-8825 sridenour@astro.temple.edu
Prof. Dennis Silage 215-204-6761 silage@vm.temple.edu

Death of a Website: www.hallicrafters.org

Arguably the best site on the Web for information about classic American "hollow state" radios in general and Hallicrafters gear in particular, the www.hallicrafters.org web site was permanently shut down on December 21st, 2000, by it's owner/creator and founder of the defunct *Hallicrafters Collectors Association*, Brad Stone NB9M.

In his announcement of the shut down, Stone mentioned as one of his motivations the foundation of another site, www.hallicrafters.net, the "home" of the "*Hallicrafters Collectors International*" group, and the actions of the owners and operators of that site in stealing the bulk of the content (including photos from other collectors, Hallicrafters advertisements and memorabilia, articles, and so forth) from his site. A key player in this content theft was Al Waller K3TKJ, owner of the www.qsl.net and www.qth.net servers, who provided space to store the content. In an email to interested parties on December 19th, Waller stated that he felt that the two sites and the organizations behind them came from the "same gene pool" and that this justified his transfer of the content to the webmaster of the new site, Fred Mooney KA1DGL. This action also followed several weeks of comments from Mooney and other HCI staff that Stone was going to shut down his site, so they were justified in raiding it.

HCA at one time sponsored several HF nets devoted to Hallicrafters collecting. The HCA net manager, Duane Fisher W8DBF, eventually ran the nets independently of the HCA in all but name. Fisher, who is also trustee of the historic W9WZE call, announced that the nets would no longer be associated with HCA but with the W9WZE "club," *Halligans' Hallicrafters*, which became *Halligan's Hallicrafters Collectors Association* and eventually HCI. Fisher was also involved in the premature announcement of the web site's demise when HCA was dissolved, and in other legal issues regarding the ownership of the Hallicrafters trademarks.

In the end, squabbling over both serious and petty issues proved to be more aggravation to Stone than it was worth, and he finally decided to pull the plug on his site and move on to other things.

The WASHRag would like to thank Brad Stone NB9M for his kind permission over the years to use pictures and graphics from the HCA web site in this newsletter, and we wish him well in his new venture, www.covertcoms.com.



All I Want for Christmas is ... The Annual WASH Party!



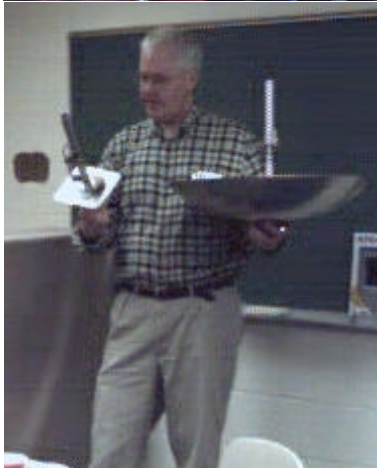
All photos courtesy of Ron WN3VAW and are ©Copyright 2000 ,2001 Wireless Association of South Hills, Inc.

Carol Danko getting everything ready... and she had lots of help, honest!

Everyone eagerly awaiting the word...



...and the word was given! (It's a good thing we had plenty!)



Kevin N3HKQ demonstrating sample satellite antennas



Ed N3ZNI, winner of the Atomic 24 Hour Clock raffle. Thanks to our "Secret Santa" for donating the clock to the party!

Special thanks to Carol Danko for organizing the Christmas Party, our guest speaker Kevin Smith N3HKQ, Secret Santa, and everyone who was able to join us for all or part of a fun evening!

"Any More Check-ins Tonite?"

Frank Sanns N3XI

It was an interesting experiment in amateur radio for both Dr. John KE3XB/2 and me. Over the last couple of weeks while John was getting his station on the air from his new residence, I was listening to the North-Northeast for 2 meter FM repeaters in South Western NY state.

There were several that I could routinely hear, but when I would transmit my call, several other repeaters within a 200 to 300 mile radius would come up. Even with my highly focused vertical antenna array, the side and back lobes still had sufficient gain to bring up other distant repeaters with as little as transmitter power as 5 watts. This is in part due to the antennas themselves, coupled with the fact that I am located at the top of an unobstructed 1,150 ft. hilltop.

Seeing that THAT was causing harmful interference on the other repeaters, I would have to search for another possible frequency. A frequency that would not have a "local" repeater or a frequency that the unwanted repeaters needed PL tones. After much searching, there were 2 repeaters that had possibilities. The 145.110 (PL 110.9) in Rochester and the 145.390 which is about 30 miles south of Rochester. Both were possible candidates but both had one other repeater that wanted to come up when I would transmit to either of the "targeted" repeaters. I had to adjust my antennas to have a null at the unwanted repeater but still have enough gain from the front lobe of the antenna to get to the "targeted" repeater.

I contacted Dr. John via email and by telephone to be sure that he could indeed get into the repeaters from his home. Both of those repeaters worked for him. The first night we were on the telephone and Dr. John tuned to the 145.110 repeater and he was listening. He said his call on the repeater and I heard him. Then I pinged the repeater once and he said somebody just keyed it. I was thinking of course, I did! But the best part came when I followed up my ping with a call to KE3XB. I am not sure who was more excited Dr. John on the other end of the phone in disbelief of the 225 mile contact or mine hearing my own voice through a 225 mile contact! It was great. Even though I had made 200+ mile FM repeater contacts on a fairly regular basis, (some to North Carolina to well into Canada) this was really one that we both had hoped for. Over the next days we had a couple of QSOs to be sure that contact would be reliable.

For the interference reason alone, Sunday night December 3rd was good because conditions were not favorable for 2 meter ducting. It may seem counterintuitive but for this contact, we needed conditions to be mediocre. This was important so that I could still have two way communication to the desired repeater but not so good that I would bring up half of the other repeaters on the East Coast!

The next factor that had to be considered, was how to receive and rebroadcast simultaneously. The technique of a patch between radios (and telephones) is well know and fairly standard but I was trying a 2 meter to 2 meter patch. Albeit two different frequencies and two different radios but still within the same band. The problem, which I only discovered the night of the net, was that when I used just 5 watts on my omni-directional vertical antenna to get into the local 146.955 Pittsburgh repeater and the net, I was overloading the front end of my receiver and I was prevented from hearing the weak "targeted" repeater in Rochester! My antennas are 250 feet apart and my beams were pointed away from the omni antenna and my main receive pre-amp was off!

Enter the local 443.650 repeater that is cross-linked into the 146.955 repeater. Brett N3FFP supplied the final piece for success the night of the net! Thanks Brett!

So by using the 70 cm band to receive and transmit all of my net broadcasts and the 2 meter band to receive and transmit the Rochester communications, you all heard Dr. John KE3XB/2 and Lyn N3YPB/2 check into the net from Rochester on his Yaesu VX-1 !!!!

Brazilian Island Calls

Paul Toledo PY3DX (ex PY3PAZ)

The Brazilian structure calls to certain DXCC islands is as follows:

- PYØS - St. Peter & St. Paul Archipelago (also IOTA SA-014)
- PYØT - Trindade Is. (also IOTA SA-010)
- PYØF - Fernando de Noronha Is. (also IOTA SA-003)

Brazilians can operate from there using a call sign like, for example: PYØFF, PYØSS, PYØTT, etc.

Also, foreigners colleagues can operate from there using the same structure, plus the letter Z before the letter designating the island, for example: PYØZFF, PYØZSS, PYØZTT. Note that only Brazilians can take two letters in the suffix. Foreigners must have three, starting with Z and the second letter will indicate his exact location.

But, Brazil also have a big sort of islands along the shore, that are non-DXCC entities. They are just IOTA's. Following the Brazilian telecommunication rules, some of these IOTA islands also have a specific letter that stands his location, for example:

- PYØA - Abrolhos Is. (IOTA SA-019)
- PYØR - Atol das Rocas Is. (IOTA SA-038)
- PYØM - Martin Vaz Is. (IOTA SA-010)

Therefore, if some day you hear somebody signing as PYØAA, PYØRR or PYØMM, be sure that this colleague is not operating from a DXCC entity, but from a Brazilian IOTA.

However, all other Brazilian islands don't have a specific letter do designate it. That's why, from time to time, some colleagues received from the ministry a license with the letter X, Z or Y, etc.

With the increasing of the sun and heat, during this summer season, many Brazilian amateurs will stop by the islands using strange calls like PWØZ, PXØX, PYØY, etc. During the pile-ups, it is hard to understand where exactly this guy is calling from. Also, many Brazilians love to catch special call signs from the ministry to use it when they are passing its vacations on these islands. Don't be surprised if you hear calls like ZXØX, ZVØZ, ZZØCW, PVØW, PPØP, PTØB, etc. I personally will take my vacations on February, and I will go to one of these islands: Santa Catarina Is. (IOTA SA-026); Sao Francisco Is. (IOTA SA-027) or Imbituba Is. (IOTA SA-088 - new one in the IOTA program)

Last year I went to SA-026 and I had a great time there. I worked the WARC bands or low bands, mainly in CW using my own call /p. At that time, I was PY3PAZ/p on Santa Catarina Is.

Don't believe everything you read: The January 2001 issue of **CQ** includes a Contest Calendar for the entire year, but Contest Editor K1AR accidentally moved the PA QSO Party up from the 2nd to the 1st weekend in October — in direct conflict with the CA QSO Party.

But don't worry! The 2001 PA QSO Party remains scheduled for the weekend of October 13 & 14, **not** October 6 & 7! (Thanks K4UK & W3TDF)

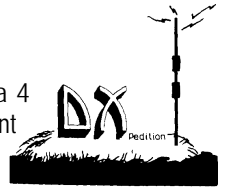


Silent Keys



Al Gross W8PAL/7, inventor of the "walkie-talkie" hand-held radios, the pager, & the cordless telephone, December 21st

DX News Briefs



One of the rarest of the rare became active for a 4 month period with no advance warning. **3YØC** went QRV on December 16th. The operator is **N4BQW** who is part of a scientific expedition, and he is expected to have plenty of operating time available. Chuck will have access to a generator up to 12 hours per day and batteries to hold him when the generator is not available. He should be active primarily on SSB 160 – 6 meters. **WA4FFW** is the QSL manager but wait until a mailing address is posted. — **WA4FFW**, 425 DX, OPDX, ARRL DX, W3UR/The Daily DX

The Sir Francis Drake Report:

4W1CW operating on 12 Meters, claiming **N7RO** as his manager, is definitely Slim. **N7RO** has no knowledge of the operator — **OPDX**

QSL Routes:

P29AM via NU5O — N7HIY	T99W via DL1QQ — DL1SBF
3W2LS via WA1LWS — N7HIY	RM6A via W3HNC — DL1SBF
3A/OH4GN via N4GN — N7HIY	T11Z via TI4ZM — DL1SBF
A15P/CY9 via A15P — A15P	LXØRL via LX1KQ — DL1SBF
FP/A15P via A15P — A15P	ZS6Z via ZS6EZ — DL1SBF
J28RD via VA2NRJ — VA2NRJ	TK5EP via F6ESH — DL1SBF
VP5K via AA5B — K7ZD	YV4A via W4SO — DL1SBF
V85HG via JH7FOK — OE1002419	RW2F via DK4VW — DL1SBF
3G3R via CE3FIP — WB9NMM	V73UX via V73AX — DL1SBF
EY8MM via K1BV — K1BV	T77CL via IK4ACL — KE4RHN

Look for the special Austrian prefix **OE75** throughout 2001 to celebrate the 75th anniversary of OEVSU, the Austrian IARU society. — **OE8CIQ**

IV3VSC (ex **DJØ0PN**) has confirmed all **ET3VSC** QSO's through October 21st and has shipped them via the bureau — **WF5E**

K2KW and N6BT have announced "DXpedition University 2001: Learn the art and "How To" of DXpedition Planning and Running Pileups!"

DXU is billed as "the first of its kind to provide a training ground for energetic radio amateurs wanting to learn the foundational methods and tactics of DXpeditioning." Between 6 to 10 hams will go to Jamaica and will become part of a team effort in the ARRL DX SSB contest. More information on DXU can be found at <http://pages.prodigy.net/k2kw/dxu/> — **K2KW** & **N6BT** via **W3UR/The Daily DX**

Look for **DX Syria 2001**, an international team operating as **YK9A** from the Syrian Telecommunication Establishment in Damascus, Syria for nine days in early February. The team will leave the US on 1 February and expects to be on the air on the 3rd. They will have three HF stations with amplifiers and a fourth station for 6 meters. A major emphasis will be put into working stations from the US and Japan, where Syria is most wanted. Daily on-line logs are planned. QSL via **K9LA** — **K7AR** via 425 DX News

GØJMU is planning to reactivate **7Q7HB** in February. If you'd like to make a sked for a particular band or mode, contact **GØIAS** at GØIAS@amsat.org "and if it is possible, we should be able to help". — **GØJMU**, **GØIAS**

VK8AM/VK4EMS is QRV 80 – 10 as **P29BI** through out January. QSL via **VK4EJ** — **VK4EJ**

Thanks to the **NJDXA DX Reflector**, **425 DX News**, **OPDX News**, & **ARRL DX Bulletins** for our **DX News** information. Thanks also to **W3UR/The Daily DX** for confirmations & additional information.



Alpha Acquired, Stays Open for Business!

ARRL Web Extra
courtesy American Radio Relay League

NEWINGTON, CT, December 28, 2000 — CrossLink Inc, a Boulder, Colorado, delivery tracking and telemetry company, is expected to acquire the assets of Amateur Radio amplifier manufacturer Alpha/Power Inc. An announcement from Alpha/Power Chairman and CEO Dick Ehrhorn, WØID, said a buyout agreement would be completed by year's end.

In September Alpha/Power, based in Longmont, Colorado, announced plans to cease engineering and manufacturing operations once its current run of Alpha 87A and 99 amplifiers was completed. Ehrhorn left open the possibility of selling Alpha/Power, provided the right buyer came along.

Under the anticipated agreement, CrossLink (<http://www.crosslinkinc.com/>) will acquire all assets of, and rights to, the Alpha Amateur Radio product line. It's anticipated that production at the CrossLink facility will resume early in 2001. In a joint statement CrossLink President/CEO Gary Zarlengo, WAØKLP, and Chief Technical Officer Gordon Hardman, KE3D, said they were "very pleased to have the opportunity to continue bringing the world-renowned Alpha name and product line to the amateur radio community." CrossLink will continue to provide full factory warranty and post-warranty service for existing Alpha owners, Zarlengo and Hardman said.

Ehrhorn, formerly W4ETO, founded Ehrhorn Technological Operations in 1970 and designed all the early Alpha linears. He sold ETO several years ago. In 1996, Ehrhorn and Dave Wilson, AAØRS/G3SZA, bought back the Alpha amplifier business from ETO. Alpha/Power purchased the RFConcepts line of VHF-UHF power amplifiers from Kantronics in late 1998.

A nucleus of Alpha/Power personnel, including Business Vice President Scott Ehrhorn and Customer Service Manager Glenn Pladsen, AEØQ, will join CrossLink. Scott Ehrhorn will become Alpha Product Line Manager; Pladsen will continue to handle Alpha customer service.

Additional details, including the new Alpha address, telephone, fax and e-mail information, will be posted on the Alpha Web site (<http://www.alpha-power-inc.com>) as they become available.

(Continued from page 5)

I have started to work on my tape gear and was given a nice Model 14TD. (I had previously owned a 14TD that was stored on a high shelf. I knocked it off while getting something else down and the casting cracked right in two. I was crying in my beer that day!). I want to get the tape stuff working because Morry gave me a genuine Teletype prepunched test wide shift — 850hz. But I have plenty of other TU's to work with here including 2 military CV-89s and a Flescher TU-170.

So now I am also working on putting in real signal loops and a patch panel capability to let me use different radios with different loops. Other switching schemes would have worked, too. But a patch panel tells visitors that this is serious stuff!

Thanks for reading this. These articles started off as a plea for help but the truth is that I have found most everything I needed along the way. My only real want right now is a genuine Teletype grease gun to do a better job greasing the Model 14, 15, 2B & 26 type motors. If you have one you can part with, I'd love to hear from you.

WASHFEST UPDATE: Appropriately, **I will be bringing one of these old WASHing machines down to WASHfest** just for the entertainment value. Stop by for an eyeball QSO!

FCC News

ARRL Web Extra courtesy American Radio Relay League

NEWINGTON, CT, December 28, 2000 — The FCC's new system to handle batch filed amateur applications from Volunteer Examiner Coordinators has cut processing time from hours to minutes. The FCC inaugurated the more rapid amateur license application processing system December 28.



"Way to go, FCC!" said an enthusiastic ARRL-VEC Manager Bart Jahnke, W9JJ, after his office fed its first batch of license applications into the system. Jahnke says processing of five dozen ARRL-VEC applications took about 50 minutes. The W4VEC in North Carolina and Central America VEC also took advantage of the new system for the first time.

Except for a two hour window right after midnight each day, the speedy new system looks for VEC submissions each hour on the half hour. With FCC license grant processing now measured in terms of hours instead of days, the major factor now determining the time from exam to license grant is how quickly VE teams get their test results to their VECs.

The FCC has been estimating a processing window of up to 90 minutes, depending on volume and arrival time. License grant results should be available immediately on the Universal Licensing System Web site, <http://www.fcc.gov/wtb/uls>, using the license search option. Once a grant is in the FCC database, the licensee has operating privileges.

Applications processed by the FCC one day will appear in the public update ("zip") files the following morning. Public call sign servers on the Internet should be able to update within 24 hours after FCC action — rather than the 48 hours that's now typical.

On-line filings from individuals, weekend filings and FCC-manually processed applications filed to Gettysburg will continue to be handled as they are now. These are batched for midnight processing, and weekend filings will not queue up until Monday midnight.



FYI Networks

For Your Information needs

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 & FTP access, and in some areas Toll-Free 500 Area Code service. 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.

Many thanks to FYI Networks for making this special offer available to us for the past three years!

Now in our **SIXTH** year – **Bigger and Better than ever!**



WASHfest 2001

The South Hills Hamfest – Hosted by the Wireless Assn. Of South Hills



Sunday, February 25th, 2001 from 8 AM until 3 PM Rain or Shine (or Snow!)

Hall opens at 6 AM for VENDORS ONLY!!

Castle Shannon VFD Memorial Hall – Rt. 88 in Castle Shannon

Talk-in on the 146.955(-) N3RNX Repeater

New this year...

Forums every hour!

Beginning at 9 AM in Building #2

ARRL Field Checker K3AIR will be on-site to verify your QSL cards for DXCC !!!

VE EXAMS GIVEN at 1 PM

*** Walk-ins accepted - Multiple-choice CW Exams***

Please bring with you TWO forms of ID, at least one with a photo. Also bring a COPY of your existing license (if any) and any CSCEs or other supporting documentation you may have.

General admission is still only \$4.00. XYLs and Harmonics under 12 admitted FREE with an adult.

Tables are \$10.00 each without electricity and \$15.00 with electricity (limited number)

All display areas are accessible to the physically challenged.

Main Prize Drawing:

1st Prize: Icom IC-2800H Dual-Band Mobile

2nd Prize: Icom IC-W32A Dual-Band HT

3rd Prize: Icom IC-2100H 2m Mobile

Main prize drawing tickets are \$2.00 each or 3/\$5.00

Drawing to be held at 2 PM in the main hall.

FREE COFFEE
Courtesy of HAM RADIO
INSURANCE ASSOCIATES
Of Canonsburg
(And DOUGHNUTS
For VENDORS ONLY
6 AM until 8 AM)

For additional information, or to reserve your space, contact Steve Lane, W3SRL at (412)

341-1043 or Bill Hill, W3WH at (724) 746– 2111 or (724) 746-1776

Email: washarc@yahoo.com Website: www.washarc.org

Name: _____ Call Sign: _____

Address: _____ Email: _____

City: _____ State: _____ Zip: _____

Phone: () _____

_____ Tables WITH power @ \$15.00 each = \$ _____

_____ Tables w/o power @ \$10.00 each = \$ _____

Please make all checks payable to
The Wireless Association Of South Hills, Inc.
Send reservations to:
WASH ARC, 897 Lovington Drive,
Pittsburgh, PA 15216-1725.

Any table not occupied by 8:00 AM may be
resold without refund unless prior arrangements
have been made!



WIRELESS ASSOCIATION OF SOUTH HILLS, INC.

Membership Application/Renewal for 2001



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

(check quarter \longrightarrow)
(check none)

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

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

(FM1) Family Membership (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.

“The TLC Embroidery Company”

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

Available	Cost (S M L XL)	Cost (2X 3X 4X)	Club logo is not currently available on the hats due to size limitations. Contact TLC Embroidery for more information.
Golf Shirts	\$20.00	\$22.00	Prices, availability & available colors subject to change without notice.
Rugby Shirts	\$20.00	\$20.00	
Light Jackets	tba	tba	Use additional sheet(s) if necessary
Lined Jackets	tba	tba	
Hats	\$10.00	\$10.00	

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

Phone: 724 - 484 - 7703

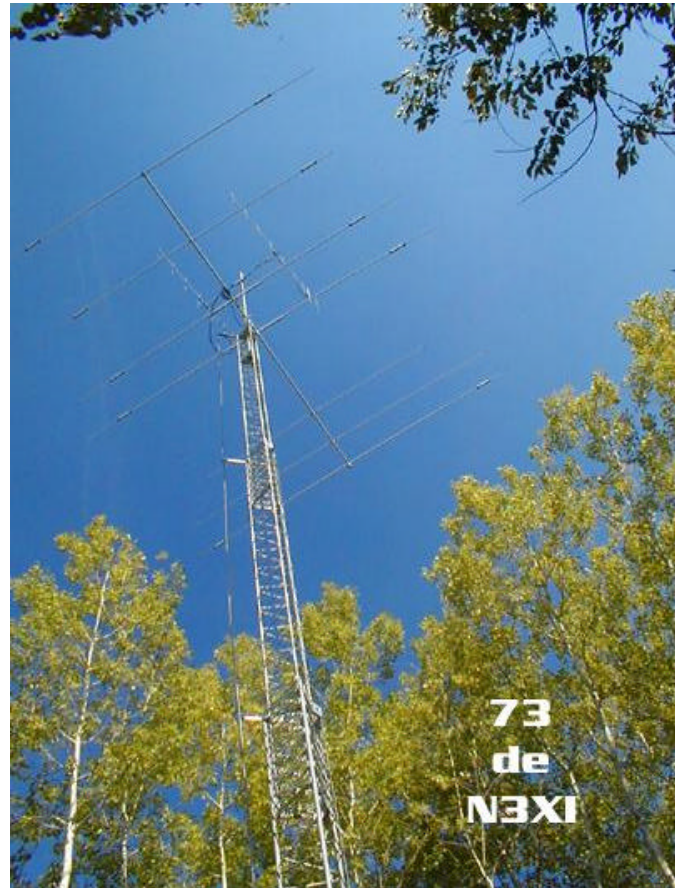
Wireless Association of South Hills, Inc
www.washarc.org



The word is spreading!
WASHFest 2001
Sunday, February 25th
CSVFD Memorial Hall!

Inside This Issue:

- Hollow State Ramblings
 - WASH 2 Meter Simplex Contest
 - Christmas Party Photos!
 - Good news from the FCC if you're planning to upgrade soon!
 - Join us for Breakfast!
 - WASHFest 2001 Announcement!
 - The Death of a Web Site!
- All that and more... waiting for you, right inside these pages...



Impressed? Then just wait until you read about how N3XI & this VHF antenna system lent a special hand to the WASH FM Net on December 3rd! Details on Page 7