



WASHRAG™

www.washarc.org



Volume 2 Issue 11

November 2000

N3SH
WA3SH

Wireless Association of South Hills

PA QSO: Boy, Did We Have Fun!

The weather was superb, conditions were fabulous, the trees were in full color, and we all had a blast during the Pennsylvania QSO Party this year!

WASH Club members were on the air from both club stations, N3SH in Clarion, and WA3SH in Washington, and from the Steel City ARC's W3KWH in Allegheny. Current and former club members could be heard from Allegheny, Washington, Armstrong, Westmoreland, Greene, Forest, and more. All in all, it was a fabulous time.

Was it perfect? No. Some people couldn't make it at the last minute, and the change of plans scrubbed the W3SRL mobile team this year. Forest was... well, see page 6. Then again, N3ZNI was all over a good bit of WPA and was chomping for more (Ed's now threatening to run mobile in all 67 counties next year!) So, we adapted and still had a blast (the scores speak for themselves)! We beat last year's Clarion County score and set a very respectable Washington County score too.

Thanks again to WACOM for the loan of their tower trailer!

Don't forget, logs are due at the Nittany ARC November 15th, and don't forget to show you're a WASH member on the summary sheet!
73, Ron Notarius WN3VAW, President
Wireless Association of South Hills, Inc. N3SH/WA3SH

PA QSO Party 2000 Scores Reported In By Newsletter Deadline:

Club Members:

W3WH	Washington	25,543
KB3FBG	Washington	10,232
WN3VAW	Forest	6,932
N3ZNI/3	Allegheny	610
	Armstrong	3,743
	Butler	620
	Greene	620
	Washington	1,506
	Wash./West. County Line	810
	Cumulative Total	12,920

Club Stations (Multi-Ops)

N3SH	Clarion	60,677	66 Counties!
WA3SH	Washington	35,750	
W3KWH	Allegheny	41,268	

Happy Birthday KDKA!

November 2nd 2000, marks the 80th anniversary of the first broadcast of KDKA Pittsburgh (1020 AM), the world's first licensed commercial broadcast station (which is what they mean when they say "world's first radio station" but that's advertising for you).

KDKA first went on the air in 1916 as 8XK, an Amateur/Experimental station belonging to Dr. Frank Conrad, a Westinghouse engineer. There are on-going efforts to save and preserve the garage from which Dr. Conrad operated.



There are many radio communications stations, including other broadcasters, that are older than KDKA (including K3CR [8XE] at Penn State and W1MX [1XM] at MIT). WJR Detroit long claimed to be the oldest station in continuous service, which Leo Rosenberg, the first announcer and station manager of KDKA, conceded in a 1983 interview. (Rosenberg stated that KDKA did not start broadcasting on a regular basis until December 1st 1920). So there may always be a debate as to who is the "oldest" and/or who was the "first" broadcaster. But KDKA Pittsburgh holds license #1 — that is one fact not in dispute anywhere.



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Next Meeting: November 9th, 2000

The next monthly meeting of the Wireless Association of South Hills, Inc. will be Thursday, October 12th, at the John McMillan Presbyterian Church, 875 Clifton Road in Bethel Park, starting at 7:00. Special guest & speaker tonight will be **Tom Dandrea N3EQF**, the author of the popular **Log-EQF** & **Rig-EQF** programs.

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

Schedule of Events

November 2000

- N3SH/WA3SH WASH Club Net, 9:00 PM ET Sunday Nights on the 146.955 & 443.650 Repeaters

Net Control Stations Needed! See KQ3DX

LOOKING AHEAD:

- ARRL 160 Contest Dec 2nd & 3rd
- ARRL 160 Contest Dec 9th & 10th
- WASH 2M Simplex Contest Jan 13th (see Page 4)
- WASHFest 2001 Feb. 25th, 2001 (Page 10)

Sun	Mon	Tue	Wed	Thu	Fri	Sat
			1 Uniontown ARC Meeting Allegheny County Skywarn Allegheny County ARES Westmoreland Co ARES Steel City ARC Social Nite	2 WACOM Meeting RA Erie Meeting	3 Elco RS Meeting	4 RA Erie VE Tests Breezeshooters VE Tests WPA Hilltoppers VE Tests ARRL Sweepstakes CW NHARC Elmer Net
5 ARRL Sweepstakes CW Ellwood City ARC Meeting	6 GPVHFS Meeting Breezeshooters Net 2 Rivers ARC Net Triple 'A' ARC Net Beaver Co Public Service	7 Butler Co ARA Meeting Carnegie Tech RC Meeting SHBP&M Meeting Skyview RS Meeting SATERN Net NHARC Club Net	8 North Hills ARC Meeting Allegheny County ARES Westmoreland Co ARES Steel City ARC Social Nite	9 WASH Meeting Horseshoe ARC Meeting BVARA Meeting Triple 'A' ARA VE Tests	10	11 Veterans Day 2 Rivers Ham'n/Eggs Brkfst Butler Co ARA VE Tests TriCounty CW ARC VE Test NHARC Elmer Net
12	13 Bum of the Month Lunch Breezeshooters Net 2 Rivers ARC Net Triple 'A' ARC Net Beaver Co Public Service	14 Foothills ARC Meeting Nittany ARC Meeting Ft. Venango Mike & Key Mtg Punxsatawney AARC Mtng SATERN Net NHARC Club Net	15 Huntington Co ARC Meeting Allegheny County Skywarn Allegheny County ARES Westmoreland Co ARES Steel City ARC Social Nite	16 Breezeshooters Meeting Triple 'A' ARA Meeting Greene Co ARC Meeting Somerset Co ARC Meeting	17 2 Rivers ARC Meeting	18 ARRL Sweepstakes SSB Foothills ARC VE Tests NHARC Elmer Net
19 ARRL Sweepstakes SSB Elk County ARC Meeting	20 ARL Lawrence Co Meeting Breezeshooters Net 2 Rivers ARC Net Triple 'A' ARC Net Beaver Co Public Service	21 Steel City ARC Meeting Skyview RS Meeting McKean Co ARC Meeting Juniata Valley ARC Meeting Pymatuning ARC Meeting SATERN Net	22 Ft Armstrong WA Meeting Allegheny County ARES Westmoreland Co ARES	23 Thanksgiving	24 National Pepto-Bismol Day	25 CQ WW DX CW Contest NHARC Elmer Net
26 CQ WW DX CW Contest	27 Breezeshooters Net 2 Rivers ARC Net Triple 'A' ARC Net Beaver Co Public Service	28 Ramadan Begins Merger Co ARC Meeting Triangle ARC Meeting SATERN Net NHARC Club Net	29 Allegheny County ARES Westmoreland Co ARES Steel City ARC Social Nite	30 WACOM Board Meeting	12/1 Elco RS Meeting	12/2 RA Erie VE Test ARRL 160M Contest NHARC Elmer Net

WASH 2000 OFFICERS

Executive Committee:			
President	Ron Notarius WN3VAW		
VP/Secretary	Steve Lane W3SRL		
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	Bob Sanford AA3FI		
Webmaster	Bob Sanford AA3FI		
Quartermaster	Harold Rosenberger KB3CPI		
N3SH/WA3SH WASH Net Managers			
2 Meter FM	Greg Babin KQ3DX		
10 Meter Digital	Mike Serowik N3BSQ		
South Hills Hamfest Co-Chairman	Steve Lane W3SRL		
(WASHfest 2001)	Bill Hill W3WH		
Field Day 2001 Chairman	(open)		
Ways & Means	Carol Danko		
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, usually followed by the 10 Meter SSB Informal Net on 28.469 MHz. 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

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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. Morse code exams are multiple-choice. Walk-ins are always welcome, but if you plan on attending the test session, please contact VE Team Liason Bob Sanford AA3FI: Telephone (724)-356-4020 or E-Mail: sanfordb@access.hky.com

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 **\$6.65** (payable to: ARRL VEC)

(Continued from page 1)

One of the many little mysteries of KDKA is WHY did they get assigned that particular set of call letters, when most of the land based stations at the time got 3 letter calls. The complete story in detail can be found at <http://www.ipass.net/~whitetho/3myst.htm>.

The short story? It was pure chance. The US Department of Commerce's Bureau of Navigation assigned calls to commercial radio stations, since most were either shipboard or land based to talk to ships. From June 1920 through May 1921, they issued 4 letter calls to every station regardless of whether or not it was on land or sea. The October 27, 1920 assignment of KDKA (which was applied for by Leo Rosenberg in Detroit) fell between the ships *Montgomery City* (KDJZ) and *Eastern Sword* (KDKB). A few months either way, Westinghouse Electric would have gotten a "traditional" 3 letter land-based call for the pioneer station.

WASH Christmas Party 2000

will once again be held at our December meeting on Thursday, December 14th, 6 to 9 PM, John McMillan Presbyterian Church, Bethel Park. Please bring a covered dish or dessert to share with everyone. Carol Danko has volunteered to coordinate the festivities, so if you're planning to come please call Carol at 412-884-1466 before December 10th. Let her know how many are coming and what you'll be bringing. Hope to see you there!

November means Elections! If you can't make it to any other meeting, please try and make the November WASH meeting. It's our annual Election night, and the people you elect that night will be in charge of the club for the next year. In a club our size, sometimes one or two votes DOES make a difference! So we hope to see you on the 9th!

The Annual "Walk to D-Feet ALS" was held on Sunday, October 22nd around the Lake in North Park, and Bill W3WH organized a team from WASH to provide communications to the walk for the first time. We had a very enjoyable morning, and the organizers have already asked us back for next year. Joining Bill was Steve W3SRL, Jacque N3ZEL, Ed N3ZNI, Ron WN3VAW, Bryan KB3FBG and Bryan's son Christopher. As it turned out, the walk was much larger than originally anticipated, and another 3 or 4 hams would have helped. We also ran into the family of SK Charlie Wood (NO3E ?) of Murrysville, a victim of ALS, who were very grateful to see us there and told a few tales of buying a QTH based on a topographic map and a basement full of boatanchors...

New Call: Longtime member George Lang is now ex-KA3JZR as he's become W3GEL under the Vanity system. Congratulations!

Digital Net Returns! Mike Serowik N3BSQ has volunteered to take the reigns of the WASH Digital Net starting November 5th. Mike takes over from net founder John Benitez KE3XB, who's left Pittsburgh due to a new job. Thanks Mike!



Logo Design Winner Selected!

Congratulations to Jim Weslager K3WR, who's design has been selected as the Official Logo of the new ARRL Amateur Radio Emergency Communications Program, EC-101, the pilot project for the new ARRL Certification and Continuing Education Program. The logo will appear on all EC-101 course materials, according to ARRL Certification Specialist Dan Miller K3UFG. Jim also designed the "new" WASH logo that you saw in last month's newsletter. Gee... doesn't the radio communications tower in that logo look just a MIGHT familiar?

October VE Test Session Results: Congratulations to the following amateurs who upgraded at our October VE session: Bryan Beyer, KB3FBG (Extra), Clayton Hamilton, KB3CHY (General), John C. Lackatos, WB3AFS (General), Keith R. Leibold, No Prior Call (Technician — now KB3FQT), Edward K. Oelschlager, N3ZNI (Extra), John E. Kern, KA3OIJ (General). Thanks also to the VE team: N3XI, W3RJM, W3SRL, N3ZEL, KA3WZO, WN3VAW — W3SRL for N3XI and AA3FI.

Club Apparel: With the holidays and WASHfest coming up, now's a good time to start thinking about ordering a new club shirt or jacket for the upcoming year. Why not order that Navy Blue shirt so come WASHfest, everyone will know you're proud to be a member of WASH? Don't wait — fill out that coupon on Page 11 and send it in to TLC Embroidery today!

Recognize
NA1SS,
RZ3DZR or
DLØISS?

They're the
calls assigned
to the ham
shack on the
International
Space Station,
to be used by
the Expedition
1 ISS crew —
including
KD5GSL &
U5MIR — now
in orbit.

Brings a whole
new meaning
to the term
"aeronautical
mobile" !!

WASHFest 2001 — 6th Annual South Hills Hamfest — Sunday February 25th, 2001

Club Members! Join the WASH Reflector & stay up to date! n3sh-subscribe@egroups.com

Minutes, October 12th Meeting

Steve Lane W3SRL, Vice President/Secretary WASH

The meeting was called to order at 19:15 local time by WN3VAW.

There were 12 members present.

A moment of silence was observed for <SK> & other deserving persons.

Introductions were then made all around, as is our custom. Welcome to Shawn, NØPEU, new member!

Reading of Minutes were waived, and motion to accept by N3KFD, and seconded by NØPEU and carried.

Treasurer: Report read and accepted.

Secretary: Nothing to report.

VE Team: N3XI will run the next VE session on 10/19/00

Repeater: no report.

2M FM Net Report: WN3VAW – Net control ops needed.

Digital Net: NØVLR reports that Mike, N3BSQ will run digital net on as-interested basis on various modes PSK31, RTTY and eventually, SSTV. The usual net freq remains on 10M for the time being.

President: reminder us to keep current with 2001 dues for forthcoming Hamfest related expenses

Contests: PA QSO Party – much discussion here....

N3SH crew to meet at 7 am, Bob Evans, Cranberry 147.240 calling frequency. Use 146.985- once on I-80. Richie & Carol will bring chairs, tables, pop, etc. N3SH Operator count down to 8 as N3RNX & W3WH can't make it. WA3SH needs a few more ops. General encouragement for club members to operate in contest. January 2 Meter FM Simplex contest – all logs entered by deadline will get a raffle ticket for hamfest. We need to start getting the word out via 2M nets, newsletter and e-mail

WASHFest 2001: Hamfest flyers/vendor letters should be done next week. We are Looking for sponsors. Carol is buying food items soon. ARRL DXCC field checker will be there. Promote hamfest – talk it up! N3KFD – mentioned quality of hamfest vendors – let's clean it up. Let's try to promote the hobby via forums and other interesting ways. Need staff to man the grill/kitchen. Need to attract non-ARRL members by using other mailing lists (QRZ) – N3UE will help. NØPEU offered to do a forum on "Hams with Special Needs."

Old Business: none

New Business: Motion by N3SBF, 2nd by NØPEU to hold the 2000 Club Christmas Party on December 14th, 2000 at the church in lieu of the regular meeting. Motion carried. Carol Danko volunteered to organize.

(Continued on page 8)

Wireless Association — 2000 Membership

AA3FI	KB3FQT	N3RHT	N3ZCG	W3HND	Carol Danko
AA3JS	KE3XB	N3RNX	N3ZEG	W3RJM	Dan Mohr
K3LIE	KQ3DX	N3SBF	N3ZEH	W3SRL	JoAnn Cottrill
K3VX	NØPEU	N3TBK	N3ZEL	W3VFA	Marilyn Nizinski
KA3TFB	NØVLR	N3TES	N3ZNI	W3WH	
KA3TWI	N2QIV	N3UE	N4MIS	WB3BPH	
KA3UPY	N3BSQ	N3UIW	NP2JF	WN3BOJ	
KA3WZO	N3CCC	N3VEH	W3GEL	WN3VAW	
KB3CPI	N3IDH	N3VVL			
KB3DCO	N3KEH	N3VWF			
KB3DSB	N3KFD	N3WPT			
KB3DSD	N3MJQ	N3XFE			
KB3ECD	N3OBD	N3XI			
KB3ENX	N3QMV	N3YPB			
KB3FBG	N3RDV	N3YQY			

2000 Annual Dues Paid Through
October 31st

List compiled by
Mark Stabryla N3RDV
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

Unfortunately for all hams today, very little of ham radio history is actually known. Heck, no one can even agree on where the term "ham" came from. There are some good references, but they are few and far between. The ARRL published **50 Years Of The ARRL** about 35 years ago. Prior to this, there is Clinton DeSoto's early history of the ARRL called **200 Meters and Down** published in the 1930's. Then there's the biography of Hiram Percy Maxim, which is now back in print, and the excellent bio of W6AM.

But these books really don't tell me enough about the personalities of these hams. What were they reading? What was the lingo of the day? How did they get started in ham radio? I want to share a peek into this kind of history with you, so you can get some flavor for what we are missing by not having more of this stuff written down somewhere.

First, and maybe the most fun, what was the lingo of the day? Even today, ham's talk to one another in a vernacular that only they understand. It's part of being a ham. Was it different in, say the 1920's? You bet it was. Here is an example of some ham lingo taken from an old QSL (courtesy of Don Buska). See if you can decipher it (I put one possible translation at the end of the column):

From 8CER (Columbus, OH) November 4th, 1927 (Card sent to 8DMU)-
Text in brackets is hand penciled in:

"Ur Sigs were R[7] when I snagged U at [7:45A] M.E.S.T. with a nasty [ac]. The uxer hr is a low life UX-210 Heartless coilet with a 3 score and 6 crock super slop over chem. The scroller is a small detective and 2 lamper with a pair of cracking cord fones. The uxing wire is a Hurt's (BCL) which clings to a skyhook 40 meters high. A light is hung in the center to keep the wireworms off and amuse the neighborhood radio bugs. A separate scrooling wire is used. Also a high powered log system is kept of all Qso's. The set is located in the basement well protected fm flying glass and any stray corks. Sububacacious equipment, 1 can of key oil, 1 Holey panel, 1 Relay which never really relayed. I junked Crapola BCL set, 1 Buggie Bug Key. The official clicker would appreciate a card fm you. All Qso's amd Rept's are verified DX [FM ALL US NC NQ] See other side for extra bull."

The back of the card had this written, in pencil, text:

"Here's my card where's yours. Please QSL ob Thanks 73 W.O.C. op Ur ac sigs very stedi ob great to copy"

What were hams reading? Here's some random excerpts of things a ham would have read in the January, 1936 issue of RADIO Magazine:

- The Chicago Daily News employs a special messenger to take messages to be relayed by Chicago hams. The St. Paul Dispatch-Pioneer prints and distributes special radiogram blanks to help local hams round up traffic.
- Doctors call alternating current "Faradic" current.
- Alfred H. Grebe was a remarkable radio pioneer. He was a commercial CW operator by age 15 and a radio manufacturer by age 20. His firm made precision spark gap transmitters and regenerative receivers. Everything in the Grebe "Synchrophase" receivers was hand made from the raw materials in a single building. That building was built on the site of Grebe's father's home. It had to be constructed around a linden tree that his father had planted and Al refused to remove.
- Grebe built the first WABC station (later a CBS flagship, oddly enough) and pioneered many radio design improvements including tone control, high-fidelity audio and one-control tuning. Grebe receivers had gain and selectivity that was said to be outstanding and unique in their time.
- Great Britain licensed a number of ham stations for dummy antenna operation only.
- (From the review of the RCA AR-60 receiver)"...We found that RCA has been very shy in regard to a definite sensitivity statement for the somewhat amusing reason that the truth would look bad alongside of some--shall we say "optimistic statements?" [of competitors]...Mr. Glenn Browning has in effect agreed with this same feeling by arguing that unless someone knows something about the NOISE output it is rather useless to talk about sensitivity...Both the RCA objection and the Browning-Tobe objection center around the fact that there is such a thing as a receiver that makes so much

Don Merz N3RHT

noise of its own that it can turn out nearly standard output WITH NO INPUT AT ALL!"

Finally, how did hams get their start? Here's Norm Gertz's story:

- I was licensed in 1937 and my first call was W1KYK which I held for 39 years before succumbing to the 2 letter call K1AA. First receiver was a single tube regenerative receiver and first transmitter was a TNT with a Type 201A tube. My power supply was an old "B" eliminator supply from home type BC receiver. I upgraded the transmitter by moving up to a Type 45 tube and finally to a 210 tube. I changed over to a Hartley transmitter before making the move into a crystal controlled rig.
- My very first band operation was on 160M. During those early years the band conditions were fantastic. No man made noise whatsoever.....extremely quiet.....you could hear and copy the weakest of signals. I was able to buy a Sears "Silverstone" all wave radio from a fire sale.....modified it with a BFO and an RF gain control and I was in heaven. That radio served me up until I left for Washington in December 1941.
- I had afternoon skeds after coming home from high school.....these were usually half hour or more QSO's between friends. I made some lifelong friendships during those years. Contacts in general were not as brief as they are now. You were likely to learn about the occupation, other hobby interests and family life of the person you were talking to. In general there was an air of courtesy and fellowship among the fraternity. CW operators always slowed down to the speed of the other station automatically.
- The majority of amateurs in those days were on CW for a number of reasons. It was the Depression and going on phone required more equipment and a microphone etc. My first efforts on phone were made with a salvaged upright old style carbon telephone. Those years were a DX man's dream. When 10M opened up you suddenly could work the entire world with a few watts.
- One significant difference was that most stations were rock bound and it was customary after calling CQ to look up and down the band and hear someone calling you 20 or 30 kHz off your frequency. The establishment of the old 5M band attracted many of the adventurous amateurs. Most started out with the same identical one tube superregenerative transceiver. It was amazing what results could be obtained with just a simple little rig. It wasn't long before the superhet receivers and crystal controlled transmitters evolved. Some old timers could not live with the congestion on 5M so they migrated to 2-1/2M!
- During those years the percentage of amateurs that owned commercially built radios was very small. First of all, there were only a very few companies manufacturing amateur radio equipment.
- Most amateurs built every piece of gear themselves. Usually, the main consideration was how much money you had to spend on component parts. Cannibalizing old broadcast receivers was a very common practice to obtain parts.
- My very first antenna was a single wire which I strung up into a tree during a snow storm. I later went on to an open wire line feeder type with home made spreaders. My first beam was a Workshop 10M 3 element beam which I purchased after WWII. Keep in mind, there was no coaxial cable in those days so you had to use other means to feed your antenna. Matchboxes were built by the individual amateurs as none were available otherwise.

Fun reading, isn't it? It's a shame this stuff is so hard to find out—and only 60 or 70 years after it happened. It's not that long ago... Oh yeah, here is W8KGI's partial translation of the QSL card info. The original sounds a lot better to me...

"Your signals were S-7 here at 7:45 am, E.S.T. with ac hum. The transmitter here is a UX-210 (audio triode, 10 type tube) self controlled Hartley oscillator with an electrolytic chemical rectifier. The receiver is a regenerative detector and two tube audio amplifier with a pair of headphones with cracks in the insulation on the leads. The transmitting antenna is a Hertz (dipole fed in the center with open wire transmission line), also used for the broadcast receiver, supported from a mast 40 meters high. A light is hung in the center to keep the birds from sitting there and pooping and to amuse the neighborhood broadcast listeners. A separate receiving antenna is used.

73 until next month when I will tell you about my recent mechanical

A Day in the Forest... A Story from the 2000 PA QSO Party Ron Notarius WN3VAW

When you realize, early afternoon, that the highlight of your day so far has been the Steak & Eggs Breakfast at Bob Evan's at 7:30 AM, it strikes you that you've had better starts to a PA QSO Party operation.

The plan was simple. Almost everyone would meet in Cranberry for breakfast, head up to N3SBF's Clarion cabin in time to get N3SH set up, then head down the road to Forest to set up my little station. Of course Murphy struck. Our first problem was getting OUT of Cranberry, as the US 19 was jammed with people heading down the road to the hospital – no, we never found out why. We got in a little later than expected, but still with plenty of time, and started setting up the club HF6V & ICOM rig, waiting for the arrival of W3SRL with the rest of the antennas and equipment. Never doubt the value of splitting up the gear responsibilities; Steve had a call 10 minutes before shift ended, and also arrived much later than planned & dead tired. Finally N3SH was completely set up & QRV, a bowl of NØVLR's 2 Alarm Chilli for lunch, and Paul, Bob KB3EPC, the WACOM trailer and I were ready to head down the road to Forest. (By the way, make sure you invite Paul to your next contest operation — as long as he brings a pot of his chilli along!)

It was at this moment that the spring on my van's rear door latch broke off, making it impossible to now open the back of the van. Everything would have to go in and out the side door. If we could lift it over the rear seat. Like some nice heavy ex-cell site batteries.

Our spot has been a public parking area outside of a State Gamelands. We arrived to find a hunter's muddy pickup parked right smack in the middle — right where we wanted to put the trailer. Still, got the trailer in position, station set up, hoisted my trap dipole, and went to check the SWR. 2,500,000:1. Went to lower the tower — and it stuck. We unstuck it, and discovered that when it was raised, the copper wires attaching the dipole to the balun had snapped off. (Breakfast looked real good just then!) Fortunately, Steve had sent us out with his R7. Unfortunately, that would mean that we'd be skipping right over a lot of the local WPA stations because of the vertical's radiation angle. FINALLY got on the air, now late afternoon, and Paul headed back to N3SH, leaving Bob to keep me company and observe.

The going was slow, and Forest wasn't that rare this year as there were at least 2 other stations on. Realizing I had no shot at winning the county, I was settling for qualifying for a coffee mug.

We had a lot of passerby's wondering what we were doing. A few stopped and asked. Quite a few drove past 3, 4, or 5 times trying to figure it out. Bob & I sat there, taking advantage of a beautiful afternoon, enjoying the fresh air, strange stares, and foreign broadcast QRM on 40 meters.

Trying the high bands for multipliers didn't work out, either. 20 was crowded, and I never heard much on 15 or 10. Worked the DX multiplier and a few others, and back to 40.

As dusk fell, NØVLR & W3SRL came down to see how we were doing and help pack up the station. It was obvious that I was not going to get my last 25 QSO's on 40 at this point, so Steve suggested trying 75 with the auto tuner. It worked! The signal wasn't strong, but we were heard, and with Steve & Paul's help, we were closing in the the magic 102 QSO's (I had two uncertain ones in the log) when a pickup truck that had passed by many times pulled in. State Police? Game Commission? No, just a local, who was trying to figure out why we had

a "radar antenna" and laptop computer there to "hunt the bears". Once Paul & I explained, as Steve worked a few more stations, the man's frown changed to a smile (he no doubt thought we were nuts) and he took off. We all breathed a sigh of relief! We'd been wondering if we should have asked Richie if he had a shotgun handy we could stash just in case...

Finally, pitch black except for the laptop screen, QSO 102 was made. Almost without delay and in record time, the station was shut down, dismantled and packed. It was not only amazing to watch Steve dismantle the R7 in the dark, lit by headlights and flashlights, but to see him do it in record time AND not drop a nut in the process.

Back at the cabin, the remaining crew at N3SH was having a blast. It was a lot of fun watching K3VX crank out the CW QSO's & NØPEU work 160 (he and W3SRL make a great tag team!).

Since I couldn't stay overnight, I was getting ready to leave at 11:30 when Steve & Paul had a brainstorm. Could I head home via PA 36 & 28 and give them Jefferson & Armstrong counties on 10 meters? 20 minutes later, I'm cresting a hill South of Cook's Forest State Park, dodging deer and barely hearing Steve on the off-center fed dipole — and 59 on the HF6V. Armstrong was the challenge. Crossed the county line an hour later, headed up the hill on 28. Just barely copied Steve, but did it, 10 minutes before the contest shut down for the night. I don't know which I was sweating out more, making the QSO before 1 AM, or keeping an eye on the State Police car that passed by me, parked on the side of the road, about 3 times! (It also occurred to us, too late, that if I had headed out I-80 West at Brookville, I would have hit Venango and would have had an outside shot at hitting Mercer right before 1 AM)

I got to go mobile after all! It helped make the ride home a lot more enjoyable. Right up until, at about 2 AM, trying to find a 2 meter repeater with activity I could hit at, I missed a sign in Ford City and somehow ended up on PA 128, the 2 lane 35 MPH back road into Natrona Heights...

I was very tired on Sunday morning so I thought that I would just work the contest from home. By 10:00, it had become apparent that ARM was again a very rare county. I decided to jump in the mobile and drive to ARM. I tried to call CQ on the upper part of 40m. No one heard me. I then answered a few calls and there was an immediate pile up with "Can I work the ARM?" I tried again to call CQ in the general portion of the band. No one heard me. I moved down to about 7.180 or so and began to call CQ. Soon I had a pretty good pile up going. When the pile was done, I again tried to move to the general portion so that those with general license could work ARM. I tried to call CQ and no one heard me. Almost every station that I worked begged me — BEGGED ME — to drive to JEF. Some asked if I would go to INN. So I drove the 30 miles to the JEF / INN line on route 119 just south of Punxy. I tried to call CQ in the general portion of the band and no one heard me. I again had to go to 7.180 or so to be heard. At 5:00, I had all but 3 counties: SCH and guess the other 2. Good guess — ARM and JEF. I finally did get them thanks to WA3HJC/M in JEF and N3ZNI/M in ARM. I never did get SCH. So 66 counties — 1 short again. I had a really great time and was glad that I went mobile. I plan to work mobile in next year in ARM, INN, and JEF.

— Bob Livrone N3WAV / M

Photos & Comments from the WASH Crews in the PA QSO Party!



Left: Why is this man smiling? Bob KB3EPC asking Rich N3SBF for advice.

Right: Kevin N3KFD at the mike as Ben KB3ERQ watches.

Below: Larry K3VX instructing Steve W3SRL on the fine art of CW QSO logging while in full sleep mode



Above: Shawn NØPEU taking advantage of the screen size on W3SRL's laptop and ICOM 756.



Above: Paul NØVLR concentrating on a contact as Ron WN3VAW gets ready to log. Also watching are (L-R) Larry K3VX, Rich N3SBF, Bob KB3EPC and Kevin N3KFD

All photos this page courtesy of and © 2000 Shawn Djernes NØPEU & used with permission. Thanks Shawn!

WA3SH Report

Well, were we having fun? I guess so. The rig seemed to work well, even with the little 'ol dipole...we were going to put another one up, and probably should have. However, by that time we were all involved and I don't think I could've pried Ed away from the radio to do so.

Big, big thanks to Bill Hill W3WH for coming over and trying to help out. It would seem that the wondrous paddle keyer I purchased didn't want to work with my radio. I apologized to poor Bill who was reduced to working his old straight key that he had loaned me ages before. Needless to say, this must be rectified. (was that an electrical joke?)

Unfortunately no one else showed up. Bob N3WPPT was supposed to come over, but was catching something and begged off. While we don't have a lot of room or extra radios, a couple of hours from someone else might have gotten us some more points. There were times when we just HAD to take a break, get up, move around, walk the dog, make coffee, etc. In expectation of a bunch of hungry hams, was making food. The good part is I won't cook this week!

— Jacque N3ZEL — WA3SH/Washington Chief Operator

N3SH Report

Overheard on the bands:

N3SH: "... please copy number 2057 in Clarion, QSL?" (a moment of silence...)

other station: "...did you say TWO THOUSAND 57?"

N3SH: "QSL!"

other station: "That's it! I'm going home!"

N3SH: "Don't worry, we're just staggering our logs, that's all."

other station: "Oh! OK, QR-Zed..."

To Don KA3JWE: Thanks very much for putting in that extra effort to make a superb piece of software — we used it as suggested for our multi-multi station and it worked extremely well.

It was a real thrill to see new club members operating HF and having a grand old time. And it was great to see everyone working as a team, filling in positions wherever needed.

As for the totals: as Don Adams (Get Smart) would say: "Missed it by THAT much" - we got 66 out of 67 counties. A huge effort was made and very much appreciated.

— NØVLR - N3SH & WA3SH Log & QSL Manager

Sealand

Ron Notarius WN3VAW

Not all DXCC Entities are truly "countries." Could it also be said that not all sovereign nations are DXCC Entities?

Sealand was originally built in the estuary of the Thames River, just outside the then claimed territorial limits of the UK, in 1940 during WWII as an anti-aircraft platform and anti-invasion base. Most of these were dismantled after the war, but this one, for some reason, was not. Instead it was abandoned. In 1967, a former officer of the Royal military and his family laid claim to the abandoned base and established the Principality of Sealand.

The UK Court System has allegedly acknowledged that the actions of the military after the war amounted to the UK renouncing all claim to the Sealand territory, and has recognized that Sealand is in effect a sovereign entity independent of the UK. Until recently, the British Home Office also referred to Sealand as independent. Sealand has repelled an invasion, at one time was home to several "free" radio stations serving the UK, and claims a population of about 300 — at least, it's issued that many "legal" passports. Prior to the return of Hong Kong to China, a German businessman allegedly was selling "Sealand" passports — the same businessman allegedly behind the invasion — who sold ~15,000 of the "phony" passports. And Sealand has applied for UN Member Status, an application still allegedly pending.

Amateur Radio first came to Sealand in 1982 as **S1AD & S1AH** to celebrate its 15th anniversary. It is unclear if DXCC status was ever applied for at that time. And it is doubtful that it qualifies under current DXCC rules since it lacks UN Member status, an ITU call sign block, or an IARU membership society. Today, the British Home Office again claims Sealand is UK territory. And the "Royal" family is about to rent the "nation" out to be used for secure off-site computer storage.

A new "Dxpedition" to Sealand may take place in December using the call 1SL1A. This may be the last chance to contact this unique territory.

Thanks to the OPDX Bulletin, KK6T, KE9KD, K2CO, NT5C, G4RGK, KZ2I and other members of NJ DX Reflector for their input to this article.

You can find out more about Sealand at www.sealandgov.com.

(Continued from page 4)

Nominations for officers:

Carol Danko nominated Paul NØVLR, for Secretary/VP and was 2nd by N3KFD. Rich, N3SBF, nominated to re-elect Ron WN3VAW for President, 2nd by N3KFD. Paul, NØVLR, nominated Bill W3VWH for President seconded by Rich N3SBF. Motion to Close nominations – by Larry K3VX, 2nd by Ed N3UE. Carried.

Good of the Order: Mark N3RDV noted: N3WVAV has had several family deaths; the club send our best to him and his family. NØVLR reminded all members about the ALS walk on Sunday, 10/22; if you want to help, please come. SATERN team looking for joining us for Field Day 2001. Ron WN3VAW reports that the Web server is out of space – looking for ideas. NØVLR looking for Rohn 25 tower sections in good condition. Mark N3RDV reports that Oct 28th the SWPA Packet Group will meet at the Blue Flame restaurant on Route 51 Saturday 10 AM. Ed N3UE reported that the W3PGH Packet Node, alias CANON, is now on 145.690. This joins up with the existing SWPaPG system of nodes

Motion to adjourn N3RDV, 2nd by NØPEU
Meeting was adjourned at 8:20.

DX News Briefs

Monk Apollo SV2ASP/A Mount Athos has been using the special call **SY2A** and will continue to do so through the end of the year. QSL to SV2ASP



G3SWH will be in Sri Lanka November 9th to 22nd. He hopes to be QRV as **4S7WHG** (40-10 meter CW only), but only for a few hours at least on most days, circumstances permitting. QSL via G3SWH, direct or via the RSGB bureau. — G3SWH

If you worked **5V7VJ** in September, QSL via G4ZVJ.

If you worked **5V7VJ** in October, QSL via DL7DF.

Two different Dxpeditions in 2000, same call sign issued. — AD1C

TS7N (November 14th – 28th) Kerkennah Islands (AF-073) will be accepted by the DXCC. This is the first time use of the WARC bands & 6 meters have been authorized from Tunisia. — DJ7IK/5A2A

3W7CW Manager SP5JTF has a new address effective October 1st: Adam Perz, POB 12, 01-323 Warszawa 83, Poland. Mail sent to the old address was being pilfered of green stamps and IRC's. QSL cards for 3W7CW are due out this month — SP5EWY

Still waiting on your **VP6BR** card? Jukka was worked during the CQ WW contest and reported that he was working on the pile of QSL's even as he was active in the contest. Patience suggested! — N9AG

The Kingman Reef **K5K** expedition went QRT on October 31st. As big as the pileups were during the early days, they were extremely easy to work on CW during the CQ WW Phone contest. — N1DG *(And yes, it's true, W3WH heard WN3VAW work K5K on 20 CW. Bill is still recovering from the unexpected shock, but he's expected to make it)*

The Eritrea Dxpedition from DL5NAM was also active during CQ WW as **E3ØTA**, making 8200 QSO's. Final total for the Dxpedition was expected to break 25K — DL5NAM

QSL Routes:

ZY2W via PT2ND — PT2ND

9K9Z via W8CNL — W8CNL

K5K via K4TSJ — N1DG

LP1F via LU5FC — LU5FC

PZ5JR via K3BYV — W9OL

SU9ZZ via OM3TZZ — DL1SBF

PW7BZ via PT7BZ — PT7BZ

WP2Z via KU9C — KU9C

B7K via W2AY — BD7NQ

OHØV via OH6LI — OH6LI

Eight members of IARV led by JA1UT will visit to Mauritanie for their NGO project in November operating again as **5T5U**. "In addition, if allowed, they wish to enter the land of Sahara Occidental and operate **SØ7CRS**." QSL via JA1UT — JF6OJX

If you were able to work Team Antigua **V26B** on 5 or 6 bands during CQWW, you can request a special certificate. Send \$1 or IRC & SASE with log info to W2UDT. The first person to work V26B on all 6 bands this year will receive a special plaque! — KA2AEV

"I have recently become a DXCC Field Card Checker for the ARRL DXCC Program and have checked applications at a few hamfests. Much to my surprise the most common error I have found in the cards I have checked is that the sender did not put the name of his country (entity) anywhere on his QSL card!" —K3ZO

KV4FZ Loses Last Appeal — QRT

ARRL Web News Courtesy American Radio Relay League

NEWINGTON, CT, Oct 31, 2000 — The US Supreme Court has put an end to the high-profile license renewal case of Herbert Schoenbohm, KV4FZ, by denying his petition for *certiorari*. The petition was Schoenbohm's last legal avenue of appeal in the case, which stretches back to 1994. The Supreme Court's decision means KV4FZ is off the air, and Schoenbohm's legal efforts to get the FCC to renew his Amateur Radio license are over.



The Supreme Court announced its latest list of orders on Monday, October 30th. Schoenbohm's case had been on its docket for possible consideration during the court's current term. Schoenbohm had remained pessimistic about the chances that his petition would be heard, however.

Schoenbohm — who lives in the US Virgin Islands — petitioned the high court in August to grant a *writ of certiorari* calling on the justices to request the record of his case from the US Court of Appeals for review. The Supreme Court offered no comment in turning down Schoenbohm's petition.

The Supreme Court's action effectively removes the last vestige of operating authority that Schoenbohm had enjoyed while his various appeals and petitions were pending. Now that the Supreme Court has spoken, his interim operating authority immediately disappears without further notice from the FCC. His call sign no longer appears in the FCC database.

Following Schoenbohm's 1992 felony conviction on federal fraud charges, the FCC set his Amateur Radio renewal application for a hearing in 1994. The FCC subsequently turned down his application, citing his conviction and character issues. The US Appeals Court turned down Schoenbohm's request for a rehearing by the full bench after it rejected his appeal of the FCC's decision last February. Schoenbohm has said he was the first amateur to face the loss of his license on the basis of character.

Losing his US Amateur Radio privileges will not necessarily put Schoenbohm off the air altogether, but he may no longer operate from US territory. Schoenbohm holds the call signs VP2VFZ in Tortola, VP2MFZ in Montserrat, VP2EFZ in Anguilla, and PY1ZAI in Brazil. He's indicated he may do some contest operating from one or more of those locations in the future.

"Both Hands on the Wheel!"

Asbury Park Press courtesy of the ARRL Letter

The Township Council of Marlboro, New Jersey, got the nod from the state Department of Transportation to put signs up on all roads leading into the area that say Marlboro prohibits the use of cellular telephones while driving. Local law-enforcement officers say they will wait until the estimated 50 signs have been planted before they begin handing out warnings and tickets. New Jersey's State Senate will watch the Marlboro development before it introduces a statewide ban on talking while driving. While the ordinance apparently does not mention hands-free devices, it does say drivers who don't keep both hands on the wheel while talking could be fined up to \$250.

FCC News

ARRL Web Extra courtesy American Radio Relay League

NEWINGTON, CT, Oct 24, 2000 — The FCC says it has reached an agreement with the eBay auction site that's aimed at curtailing the sale of clearly illegal radio equipment.

FCC Special Counsel for Amateur Radio Enforcement Riley Hollingsworth says eBay has agreed to cooperate in removing advertisements in which the item for sale "is clearly non-certified." Hollingsworth said most of the equipment involved falls into the CB category, including illegal amplifiers.



"I've got a whole folder of people who have been complaining about this and will be delighted to know that the Commission is taking action," said the ARRL Regulatory Information Branch's John Hennessee, N1KB.

Hollingsworth said a review team within the Technical and Public Safety Division of the FCC Enforcement Bureau is screening eBay ads each week. He said the practice could be extended to other auction site if the FCC learns of similar problems.

Hollingsworth credits complaints from the Amateur Radio community with getting the new system in place. "I've been collecting complaints for a year, but the amateur community really generated it," he said.

Hollingsworth says he sees about 10 complaints a week about auction site advertisements--sometimes several about the same ad--and has been forwarding all complaints he receives to a "duty team" within Technical and Public Safety. He cautions that complaints should be based on clear-cut FCC rules violations, however, such as attempts to sell illegal linear amplifiers.

The FCC wrote General licensee Sam W. Jacobs, K3SAM of Latrobe, PA, on September 28, 2000, dismissing Jacobs' application for club station license KB3FGX. The FCC has initially granted the KB3FGX application, then set the grant aside July 17 while it sought additional information on the purported club entity, "the J & D Club." "We received complaints that the real purpose of the club was to harass other amateur operators," FCC Special Counsel for Amateur Radio Enforcement Riley Hollingsworth wrote. Hollingsworth gave Jacobs 20 days to provide detailed information on the purpose of the J & D Club, to detail conversations he'd had with other amateurs about the club's formation and their status with it, and to explain a note on a KB3FGX QSL card that suggested the club's purpose was to cause QRM.



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. 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 two years!

Our Sixth Big Year — Better than Ever!

WASHFest 2001

The South Hills Hamfest

Sponsored by the Wireless Association of South Hills, Inc. N3SH / WA3SH

Sunday, February 25, 2001 8AM until 3PM Rain or Shine!!

Castle Shannon VFD Memorial Hall

PA Route 88 (Library Road) in Castle Shannon

Just 10 Minutes from Downtown Pittsburgh

Talk-In on the 146.955(-) N3RNX Repeater

General Admission is still only \$4.00

XYLs and Harmonics under 12 admitted FREE with a PAID admission



All display and forum areas are on one, handicapped-accessible level within CSVFD's banquet complex.

New this Year:

FORUMS!!!!

- ARRL WPA Section Manager John Rodgers, N3MSE on Current ARRL happenings
- HF Radio For the New and Not-So-New Operator, Presented by the WASH Group
- QRP Operations – It's Not Just For CW Anymore!!!
- Kevin Smith N3HKQ on AMSAT and OSCAR Phase III-D
- And Much, Much More!!!

ARRL DXCC Field Checking!!

- Bring those QSL cards for validation!!!

VE Exams!!

- ARRL-VEC accredited VE exams will begin promptly at 1PM
- ** Walk-ins accepted ** • Multiple-choice CW exams **

Note: If you are planning to take a VE exam, please bring TWO forms of ID, at least one of which MUST be a photo ID!! Also, please bring a photocopy of your current license (if any) and any CSCEs or other documents you may have.

Win an Icom IC-706MkII HF/6m/2m/70cm All-Mode Rig!

Prize tickets available at the WASH club table. All proceeds benefit the WASH club operating events fund.

For More Information:

Hamfest Co-Chairman

Steve Lane W3SRL

412-341-1043

Hamfest Co-Chairman

Bill Hill W3WH

724-746-5944 or 724-746-1776

Email:

washarc@yahoo.com

Web:

www.washarc.org

Hamfest Reservation form – PLEASE PRINT OR TYPE LEGIBLY and return with our payment

Name: _____ Call Sign: _____

Address: _____ Email: _____

City: _____ State: _____ Zip: _____ Phone: _____

Number of Tables WITH Power: _____ @ \$15.00 each

Number of Tables WITHOUT Power _____ @ \$10.00 each

Total Amount Enclosed: \$ _____

Note: Any tables NOT claimed by 8:00 AM may be resold without refund unless prior arrangements are made

Make All Checks Payable to the Wireless Association of South Hills, Inc. and remit to 897 Lovington Drive, Pittsburgh PA 15216



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 →)
(check one)

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

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					

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



The *WASHRag*
Ron Notarius WN3VAW, Editor
3505 Rosalia Avenue
Castle Shannon, PA 15234-2317

Inside This Issue:

- PA QSO Party Wrap-up & More Pictures!
- Hollow State Ramblings
- WASH 2 Meter Simplex Contest
- The Latest (& Last) Word on KV4FZ
- Announcing WASHFest 2001!
- Guess Who's Birthday it is?
- And the reason you're forming that club is...
All that and more... and you're waiting for...?



N3KFD & K3VX carefully observe N3SBF operating N3SH/Clarion County during the 2000 PA QSO Party. Note Richie's right hand!

Photo courtesy of and ©Copyright 2000 Shawn Djernes NØPEU — More Photos & Stories Inside!