



WASHRAG™

www.washarc.org

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December 2000



N3SH
WA3SH

Wireless Association of South Hills

Looking Back, Looking Ahead

We sure had a great time in 2000, didn't we?

I've been trying to write a "year in review" article, and it's hard to name everything and not accidentally miss something or slight someone. Certainly we can't ignore high points like our overall best WASHfest ever, Dayton, Field Day, the USI expedition, or the two PA QSO Party operations. To say nothing of outstanding Public Service activities, by ourselves or with other SWPA area amateurs, including Y2K Night, Pittsburgh Marathon, Vintage Grand Prix, The Great Race, and the ALS Walk. But there were so, so many more.

To name even a few of the members who've been there for the club & club activities this year risks missing others. But I'd be remiss in not mentioning outstanding efforts & contributions from W3SRL, N3RDV, W3WH, NØVLR, N3KFD, N3ZEL, N3ZNI, Mr. & Mrs. N3SBF, K3VX, K3OL, KQ3DX, KB3CPI, W3RJM, N3KEH & just about everyone else. My apologies if space has prevented me from adding your call too!

But rather than dwell further on last year, let's instead look ahead.

On November 30th, an impromptu informal meeting & brainstorming session was held at Al's Café to come up with some "action items" or goals for WASH in 2001. In attendance were NØVLR, W3WH, N3RNX, N3WPT, N3ZEL, N3ZNI, N3RDV and WN3VAW, with some on-air input beforehand from W3SRL and N3KFD and others.

Suggestions included:

- Start a Structured Elmer Program for new & newly active hams.
- Start an Antenna Help Team
- Create an RFI Committee/Task Force
- Create an Activities Committee to help plan club activities
- Appoint a Chairman of Operating Events to plan and coordinate special event stations and contest operations. Bill W3WH has volunteered for this position starting January 1st.
- Create a Public Service Committee to help plan and coordinate with upcoming community events
- Appoint a Media/PR Coordinator

(Continued on page 3)

AO-40 In Orbit!

AO-40, the decade-long awaited AMSAT Phase 3D Satellite is now, finally, in orbit!

The satellite, renamed AMSAT-OSCAR 40 by AMSAT-NA Board Chairman Bill Tynan W3XO after launch, was the 4th payload on an Ariane 5 launch that got underway after a one day postponement at about 0009Z on November 16th, 2000. Before 0100Z, the satellite was ejected from the launcher. First beacon signals were heard by about 0307Z over Australia.

AO40 helps mark the 40th anniversary year of the first launch of the first Amateur satellite, Project OSCAR I. AO40 is dedicated to the memory of Werner Haas DJ5KQ (SK) and has the call sign of DPØVH in his memory.

AO40 is currently in a transfer orbit and will soon begin to be moved into an high elliptical orbit, a process that will take about a 9 months. It was not originally expected to be in general use at first, but there may be some limited use of the satellite in the near future on one or two bands. AMSAT bulletins will provide more information on possible limited operation in the near future.

AO40 is transmitting a general beacon on 435.450 MHz and a PSK31 beacon on 145.895 MHz. There are reports that the PSK beacon is easily monitored on an IC-706 in a car mount!

— Ham Radio Online & The ARRL Letter

WASH Christmas Party December 14th, 2000

From 6 to 9 PM at the John McMillan Presbyterian Church, Bethel Park. Talk-in on the 146.955 Repeater (131.8 PL). All welcome, members or not. We will have a BRIEF business meeting at about 7 PM.

Special guest speaker will be Kevin Smith N3HKQ, talking about AMSAT and the new AMSAT-OSCAR 40 (Phase 3D) Satellite

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!

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December 2000

- 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

LOOKING AHEAD:

- WASH 2M Simplex Contest Jan 13th (Page 4)
- WASHFest 2001 Feb. 25th, 2001 (Page 10)

Sun	Mon	Tue	Wed	Thu	Fri	Sat
					1 World Aids Day Elco RS Meeting	2 ARRL 160M Contest RA Erie VE Test NHARC Elmer Net
3 ARRL 160M Contest Ellwood City ARA Meeting Pittsburgh QCWA Net WASH FM & Digital Nets	4 GPVHFS Meeting Breezeshooters Net Beaver Co Public Srvc Net	5 Butler Co ARA Meeting SHBP&M Meeting Skyview RS Meeting SATERN Net	6 Uniontown ARC Meeting Allegheny County Skywarn Allegheny County ARES Westmoreland Co ARES	7 N4W1S USS Wisconsin & W2W Special Event Stns. WACOM Meeting RA Erie Meeting	8 N4W1S USS Wisconsin Special Event Station	9 ARRL 10M Contest Breezeshooters VE Test Tri-County CW VE Test 2 Rivers Ham'n Eggs Bkfst NHARC Elmer Net Nittany ARC Coffee Call
10 ARRL 10M Contest Pittsburgh QCWA Net WASH FM & Digital Nets	11 Bum of the Month Lunch Breezeshooters Net Beaver Co Public Srvc Net	12 Foothills ARC Meeting Nittany ARC Meeting Ft. Venango M&K Meeting Punxsatawney ARC Meeting	13 North Hills ARC Meeting Steel City ARC Social Nite Allegheny County ARES Westmoreland Co ARES	14 WASH Christmas Party Horseshoe ARC Meeting Beaver Valley ARA Meeting	15 2 Rivers ARC Meeting	16 W3F & W3T Sp. Event Stns WX3MAS Sp.Event Station Croatian CW Contest NHARC Elmer Net
17 Elk County ARC Meeting WX3MAS Sp.Event Station Pittsburgh QCWA Net WASH FM & Digital Nets	18 Steel City ARC VE Tests Monessen ARC Breezeshooters Net Beaver Co Public Srvc Net	19 Steel City ARC Meeting McKean Co ARC Meeting Juniata Valley ARC Meeting Tri-State CW ARC Meeting	20 Huntington Co ARC Meeting Allegheny County Skywarn Allegheny County ARES Westmoreland Co ARES	21 Somerset Co ARC Meeting Greene Co ARC Meeting	22 Chanukah	23 NHARC Elmer Net Nittany ARC Coffee Call
24 Christmas Eve Pittsburgh QCWA Net WASH FM & Digital Nets	25 Christmas Breezeshooters Net Beaver Co Public Srvc Net	26 Boxing Day Triangle ARC Meeting SATERN Net	27 Steel City ARC Social Nite Allegheny County Skywarn Allegheny County ARES Westmoreland Co ARES	28 WACOM Board Meeting	29	30 Stu Perry Top Band Distance Challenge RAC Canada Winter 'test NHARC Elmer Net
31 Straight Key Nite Stu Perry Top Band Pittsburgh QCWA Net WASH FM & Digital Nets	1/1 Happy New Year Breezeshooters Net Beaver Co Public Srvc Net	1/2 Butler Co ARA Meeting SHBP&M Meeting Skyview RS Meeting SATERN Net	1/3 Uniontown ARC Meeting Allegheny County Skywarn Allegheny County ARES Westmoreland Co ARES	1/4 WACOM Meeting RA Erie Meeting	1/5 Elco RS Meeting	1/6 NHARC Elmer Net Nittany ARC Coffee Call

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 Beyen 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)
	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. 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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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, wn3vaw@qsl.net or wn3vaw@arll.net

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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 Jacqué 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)

(Continued from page 1)

- Start Amateur Radio New License and Code/Upgrade Classes post WASHFest, starting in March

We also discussed how to make the business meeting more, well, tolerable:

- Start the meeting on time — no later than 7:05 except under unusual conditions.
- Keep business meetings to about a ½ hour
- Make an agenda and stick to it
- Keep committee reports short and to the point — time them if necessary.
- Appoint one or more "official greeters" to welcome guests and potential new club members so that they don't feel left out.

But remember — these are just suggestions, though very good ones. If you have an idea, talk to one of the club officers/staff or bring it up at a meeting. We're always open to new ideas!

And if you have any ideas for articles that you'd like to see in upcoming WASHRag's, let me know. If we know what you're interested in reading about or learning about, then we can go and try find people who can write about them!

We are getting a reputation as a club that is very active. Our unofficial motto seems to be "We Do Things!" This is a great reputation to have, and we can easily live up to it. I'm really looking forward to another great year together doing just that!

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

N3KEH SK: You probably know by now that Don N3KEH became a Silent Key on November 16th. There's not much to add to Steve W3SRL's ramblings over on Page 7. Personally, I'm going to miss Don's teasing me about the Pirates (he was a lifelong Cleveland Indians fan), his no-nonsense attitude, and our running joke over his preferred drink at club meetings. And I will never forget the look on his face that one meeting when I presented him with his own personal bottle of bourbon! Don's wishes were to have no local services, but rest assured, we will have one last toast to him at the Christmas Party this month. 73 & Goodbye Don — WN3VAW

VE Team Changes: Bob Sanford AA3FI, who has served as our ARRL VEC VE Team Liason, has stepped down after almost 4 years of service. Changes in Bob's work schedules at USAir and training on the new Airbus planes have prevented him from participating in most VE sessions of late. Jacqué Gosselin N3ZEL has assumed the VE Team Liason position effective immediately. Thanks Bob for all of your hard work, and thanks Jacqué for stepping in!

FM Net Changes: As most of you know, Greg KQ3DX is stepping down after a year as our FM Net Manager (we're not calling it the "2 Meter" net anymore since it's also on 70 cm!). Bryan K3OL (ex KB3FBG) has agreed to take on the position starting in January. Thanks for all your effort this year Greg, and thanks Bryan for taking over — and congratulations again on the new call!

2001 Calendar: The ".1" revision of the WASH 2001 South Hills Amateur Radio Calendar is now available for download from both the WASH web site www.washarc.org and the Breezeshooters web site www.breezeshooters.net/news-info.htm#calendar (thanks Ed N3UE!). Some small corrections and last minute updates were made. The calendar is free, and contains information about club meetings, VE sessions, and other activities throughout Western PA and nearby areas, plus a lot of color pictures (some never before published) of WASH members "in action" and more. Enjoy!

WASHFest 2001 sure seems like a few months off, but it will be here before you know it! We're going to need everyone's help to put together one of the best hamfests in the tri-state area. We need help in setting up the buildings, parking, reception, talk-in, kitchen, clean-up, Forums and VE Sessions, ticket selling and just about anything else that you can think of. We'll need people on site from as early as 5 AM until about 4 PM, and for most, we'll only need an hour or two of your time. We'll start filling in positions next month, so give some thought now as to what you can do.

Breakfasts? Starting in January, we're going to try something new. Once a month, on the LAST Saturday of the month (half-way between most club meetings) we're going to get together for an informal breakfast & gab session, starting at about 9 AM. All (members or not) will be welcome even if they only want a cup of coffee! What we haven't picked yet is the place. If you have any ideas of a gathering spot (Eat'N'Park on Noblestown Road at Vanadium & several Kings have been mentioned), bring them to the next meeting or let WN3VAW, NØVLR or N3RDV know.

Has W3WH been holding out on us? Probably not, but judge for yourself. Check out www.williamhillcasino.com (he sure does look a little different in that photo... must be the camera resolution)

The ARRL has announced that the VE Test Session Fee for 2001 will be going up to \$10.00. This is pending approval, so the \$6.65 fee will remain in effect after January 1st, 2001 until it is approved.

The FCC is no longer limiting the annual increase in the fee. ARRL is trying to bring it in line with actual costs.

Other VEC's are expected to follow suit in their 2001 fees.

WASHFest 2001 — 6th Annual South Hills Hamfest — Sunday February 25th, 2001
Don't forget — 2001 Dues are due next month! Give yourself a nice Christmas Present!

Minutes, November 9th Meeting

Steve Lane W3SRL, Vice President/Secretary WASH

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

There were 22 members present, and 6 guests. Special guests were Tom Dandrea N3EQF and Patty Dandrea N3TFV. They are our guest speakers this evening after the meeting.

A moment of silence was observed for <SK> & other deserving persons. Introductions were then made all around, as is our custom.

A motion was made to accept the minutes of the October meeting as published in the newsletter was made by N3SBF and seconded by Carol Danko and then carried.

Secretary: W3SRL presented a framed copy of the WA3SH certificate from the 1999 PA QSO party to N3SF and Carol as an expression of our gratitude for allowing us to operate from their Clarion cabin.

Treasurer: Report read and accepted.

VE Team: W3SRL for AA3FI/N3XI N3ZEL has stepped up to accept the VE Liason position for the upcoming year. Transition is in progress.

Repeater: W3SRL for N3RNX The move is on! Met with the commercial contractor who is doing the move, and hope to get things going for the first week in December. We will need help in muscling the machines up to the new location, and they may be down as long as a week.

FM Net: WN3VAW for KQ3DX: Need a new net manager for 2001. Volunteers?

Digital Net: NØVLR for N3BSQ: Mike, N3BSQ is running the digital net now. Meet us on 28.105 after the FM net on Sunday evenings. RTTY and PSK-31 to be the featured modes.

Activities: Carol wants to buy food for the Christmas party. Motion to allocate \$200 for the party, and \$200 for the hamfest stuff. Motion by W3RJM/W3WH and carried.

Hamfest: W3SRL: Will be on February 25, 2001. Menu to be determined. Lengthy discussion on prizes and related matters. Emphasis on promoting the hamfest & the forums in coming months.

Contests: WN3VAW: PA QSO logs are due in by 11/15. Get 'em in! ARRL 10m & 160m contests, Sweepstakes is this month! N3ZNI reported on the 2m contest in January. It was suggested to give a free hamfest prize ticket for every contest log submitted.

Newsletter: None.

President: None.

Elections: W3WH declined nomination for president, and there were no further nominations. WN3VAW was thereby re-elected President for 2001. Likewise, NØVLR was unopposed for VP/Secretary and

(Continued on page 6)

Wireless Association — 2000 Membership

AA3FI	KB3ENX	N3RHT	N3ZCG	W3HND	Carol Danko
AA3JS	KB3FQT	N3RNX	N3ZEG	W3RJM	Dan Mohr
K3BZW	KE3XB	N3SBF	N3ZEH	W3SRL	JoAnn Cottrill
K3LIE	KQ3DX	N3TBK	N3ZEL	W3VFA	Marilyn Nizinski
K3OL	NØPEU	N3TES	N3ZNI	W3WH	
K3VX	NØVLR	N3UE	N4MIS	WB3BPH	K3EED (SK)
KA3TFB	N2QIV	N3UIW	NP2JF	WN3BOJ	N3KEH (SK)
KA3TWI	N3BSQ	N3VEH	W3GEL	WN3VAW	W3ZLK (SK)
KA3UPY	N3CCC	N3VVL			
KA3WZO	N3IDH	N3VWF			
KB3CPI	N3KFD	N3WPT			
KB3DCO	N3MJQ	N3XFE			
KB3DSB	N3OBD	N3XI			
KB3DSD	N3QMV	N3YPB			
KB3ECD	N3RDV	N3YQY			

2000 Annual Dues Paid Through November 30th
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 : Mechanical TTY Adventures Part 1

Don Merz N3RHT/AG

Yes, it says /AG behind my call. I finally stopped working on these old buzzard radios long enough to get my General. Now I can now operate the old buzzards too! I have been totally occupied by studying. But earlier, I was getting into some of my old mechanical TTY gear & wrote up the following. This is the first of several parts.

I've spent whatever radio time I had over the past 2 weeks cleaning, oiling, greasing and running some of the TTY gear around here. This all started when my 9 year old son was banging on my 1950's military Kleinschmidt KSR and I was not so gently telling him to stop. He has always had this disease — he can't look at something without touching it. We adopted him from Russia when he was four years old. He came to us not speaking a word of English and when we would reprimand him for touching things he would say "yalookin!" to let us know that he was "lookin" at it. Five years later, he is still yalookin.

To distract me from my anger, he cleverly asked me "what does this thing do?" And that's what started my TTY yalookin adventures. I realized that I'd never even fired up that thing even though it looks pretty decent. So, after a moment's thought, I replied "let's find out." I had stayed away from running the Kleinschmidt because I didn't have a manual for it. I'm a stickler for manuals--a manual gives me a sense of security when I'm in an unfamiliar piece of gear. But it was beginning to look like I'd never find a manual for this beast so what the heck — time to roll the dice.

So I got out my trusty oil can and began soaking all the felts, using the new oil to loosen the gummy stuff in the typebasket and so forth. This KL machine is a straightforward KSR (short for "Keyboard-Send-Receive") with a loop supply built into the rear, underneath the paper roll. It must be a later model, I'm guessing mid-to-late 1950's. It uses a conventional typebasket--no wheel or type-hammer like the later Teletype 28 or 33 models.



Turning the motor by hand showed that there was no obvious binding anywhere or other significant danger signals. The motor bearings look to be sealed with no opening to admit oil or grease. After a bit, we plugged it in, flipped the switch and it purred to life in a most satisfactory manner. Forty years and still going! Eat your heart out, Energizer bunny!

I noticed that the signal and power connections terminated in a little ESU (Electrical Service Unit) box next to the rear-mounted loop supply that had a rotary switch with a TEST position. In TEST mode, the KSR puts its own loop supply in series with both the keyboard and the selector magnets so it acts just like an electric typewriter--now I could test everything without needing even a local loop supply and test signal--very convenient. After a short time, everything was working great in this mode. Now to try a real signal and external loop supply....the subject of PART 2.

Lubricants

If you get working on any old mechanical TTY gear, your first problem will be lubrication. The consensus among the die-hard collectors is to use 10 WT oil and lithium-based grease. Some people use 3-in-1 oil while others cautioned against using paraffin-based products like 3-in-1. My local TTY Elmer, a guy who used to maintain these for a living, suggested 1) never lube anything unless you are having problems, and 2) to do a thorough job, degrease the whole thing and then bathe it in WD-40. He suggested automotive axle grease for gears and so forth.

Sifting through all the advice, I decided to go with the 10 WT oil and lithium grease. These are easy to procure (though 10 wt oil is no longer common...) and seem closest to what is already on these old washin' machines. The 3-in-1 and WD-40 have one thing in Common — they use bases that eventually evaporate. This probably is never an issue as long as you are careful to refresh the lubricant periodically. But I don't trust myself to do that so I decided against those. The axle grease, with apologies to my elmer, is just not a good choice--too heavy for the job at hand. The lithium grease is a modern lubricant that can be easily applied to the gears with a small paintbrush.

Last comment: I have also found that plain non-detergent 30 WT oil works fine. Time will tell if it attracts and holds too much dust, but I am satisfied with 30 WT so far.

Loop Supplies and Test Signals

So now the Kleinschmidt is up and running quite well. Howabout trying an external signal? Well, that requires a loop supply and a source of signal. The Kleinschmidt has a 1/4" plug connected to a set of binding posts and I assume that this is for connection to a loop. But I have no docs on the thing so is this connection for keyboard? Selector magnets? Both? Unknown... Another unknown is the speed of the unit. I assume it is 100 speed since it seems like a newer machine. Another unknown is how the KL machine's internal loop supply is inserted into the loop. Is it automatically inserted with the machine? Or only available from some of these other unlabeled binding posts? Hmmm....

It just so happens that I have a source of 100-speed test signal here. It is some kind of Teletype test machine that looks like a Model 14 transmitter-distributor (TD) but without the tape handling mechanism. Instead, it has a set of five metal code wheels turning together, each operating against a double-throw contact (upper contact for MARK, lower contact for SPACE) to send some sort of test message in 5-level TTY code. The only identifying marking on it is a hand-painted number: **5815-K-914679** — I think this is a Teletype part number. But this thing probably hasn't been turned on in 25 years and it is covered with a disgusting layer of greasy dirt inside and out.

Undaunted, I start my youngest son, master Julio, using GoJo and a scrub brush cleaning the outside and I set myself to cleaning the inside. The signal cord is brittle and needs replaced so I take care of that little chore. Ultimately, it looks sharp and I add fresh oil to all the obvious locations. This is a highly-complex, precision machine with 2 toggle switches: MOTOR Off/On and LINE Off/On. The motor label says **110vac 60cy** so I plug it in, flip the MOTOR switch and we are rewarded with ferocious spinning and contact clacking as the mystery signaller begins sending its mysterious 100-speed signal (I know it is 100 speed because someone has conveniently marked the cover "**600 OPM**").

Actually, the mystery signaller is not that mysterious to me. My TTY "elmer" gave me this one and another military unit that is very similar. Earlier this year I was lucky enough to find a manual for the military unit which is a TS-2/TG Test Set. The military unit is identical to the commercial one except that it has more features. The commercial 100- speed set can only send one test message: **THE QUICK BROWN FOX JUMPED OVER THE LAZY DOG'S BACK 1234567890** and some punctuation. The military unit can send this message, or a steady stream of R's, Y's or spaces. It can also simulate bias distortion of several types. And finally, the military unit supports 60, 75 and 100-speed through gear changes (all 3 sets of gears were included in the original TS-2/TG set but mine has only the 60-speed gears that are installed). So, by reading the TS-2/TG manual, I was able to figure out everything I needed to know about the commercial 100-speed test set.

Well, now I have a source of 100-speed signal, what do I do for a loop supply? Here I got distracted and wasted some time. I have an old Teletype REC-29 loop supply that probably needs nothing more than the selenium rectifier replaced and the electrolytic cap reformed. I also could try to use the supply in the Kleinschmidt machine. I also have an Electrocom FSC-250 TTY demodulator that has a built-in local loop supply. But instead of any of these options, I decided that this would be a good chance for me to use a rackmount variable power supply that I had. I won't go into it, but the rackmount supply turned out to be a bad choice. So after going in a few circles, I abandoned the rackmount supply decision and turned back to the REC-29.

Meanwhile, I had developed a list of a few wants and questions so I called up the guy I've been calling my TTY "elmer," Morry. Morry said to come on over and he would "see what he had" laying around. Morry is a ham (shame on me, I can't come up with his call...), Korean-war veteran, ex-Teletype authorized service shop owner and an accomplished machinist who builds steam engines and other mechanical wonders in his basement machine shop. Morry has a lot of old TTY gear, parts and whatnot in his house and he has gradually been handing some of it over to me. But he has some of everything there--Teletype, ham gear, mil surplus, industrial amplifiers and power supplies and test gear--he has lots of hobbies and enjoys them all.

Next: PART 2: Fire! And A Visit With Morry.

What Makes a Hero?

Donald F. Vollant N3KEH, 76, of Scott Township, PA became a Silent Key on Thursday, November 16th 2000. He was suffering from Multiple Myeloma, and passed away at home, surrounded by family.

The recent passing of our friend and cohort Don, N3KEH was a shock. Not entirely unexpected, as Don had been having a series of health issues of late, but he never admitted to anything near as serious as the Multiple Myeloma, a fast-moving cancer that ultimately overcame him. Don kept a stiff upper lip as they say over in G5 land and never let his pain and troubles show to most of us. Only a very few outside his family even knew he was ill.

But that was Don. He was the kind of guy who was both ornery and admirable at the same time. Intensely private, but always willing to help. The sort of guy who even in his seventies was out there helping to hoist antennas and check the feedlines at field day under a sweltering June sun. The sort of guy who crabbed annually about the fact that the church where we have our meetings didn't allow alcohol to be served. The kind of guy who was always there to offer a no-nonsense solution to the most difficult of interpersonal situations at the club meetings. The kind of guy who was widely suspected of anonymously slipping a couple of unmarked bills into the mail for the support of the repeaters we use daily. The kind of guy who wanted no fanfare at all when he exited our world; But who wanted to be quietly interred at Pearl Harbor with his compadres when the inevitable finally occurred.



For those of you who didn't really know Don, he was fiercely proud of his service in WWII, where he served as a high-speed wireless operator. After you got him to cut through the alternating layers of modesty and obfuscation, One got the sense that he felt that he was just an ordinary guy who did the best he could with the hand that he was dealt. In a very rare moment, I once got Don to open up a bit about his wartime service and it filled in a bunch of gaps about who he was and why he was the way he was. He mentioned the fact that less than half of his high-school class came back home from WWII, and that he was harassed mercilessly by his buddies in basic training about being selected for training as a high-speed wireless (read CW) operator while THEY were being detailed out to the Infantry. After a brief training school, Don soon thereafter shipped out for the war. Little did his buddies know that a wireless operator pulled 12-hour shifts in a sweltering commo shelter the size of a large icebox while being bounced around on the back of a halftrack or a 6x6 truck. Little did they know that the German and Japanese troops were quite adept at radio-direction-finding and ultimately in bracketing their artillery fire in on a radio signal. Little did they know that a wireless op's lifespan in combat was measured sometimes in hours, instead of days or weeks. Cushy job indeed! Don beat the overwhelming odds against him and made it back. He told me he was just too ornery to be taken out!

On returning from the war, Don settled back into civilian life and raised his family like how many thousands of other GIs did. No fanfare, no hullabaloo, no nothing. That was his style. Most of us knew him as the cigar-gnawing bourbon-drinking old curmudgeon who always had a

Assorted Ramblings from Steve Lane W3SRL

simple solution for whatever the problem was, no matter how complex it might be. Cut the crap. Gruff but compassionate; Firm but introspective. He called a spade a spade and held anyone in contempt who did otherwise. At least on the surface.

In recent years Don served as the Allegheny County SKYWARN coordinator, the WASH club 2-meter net manager and former president of the Audubon Society of WPA.

I came to know Don shortly after joining our club back in 1995. He had mentioned that he was having problems with his Cushcraft R-7 vertical antenna and needed some help in getting it down for repair. I enlisted Pete, N3RNX to help me and we headed over to Don's house one damp spring morning after our night shift was over. After the obligatory coffee and BS session. I headed up to the roof and undid the brackets there. Pete helped from the lower end. We undid the mast and PLOP! I dropped Don's new R7 very hard onto his roof! Oooops! There were no hard feelings, and a checkout later confirmed that there was no damage to either the antenna or roof that wasn't there before Pete and I arrived. The gratitude in Don's face said it all. He thanked us profusely, and promised to call us when it was time to reinstall the antenna back on the house. And or course we had to have another cup of coffee or something stronger if we wished before we left.

That was the side of Don that many of our group never got to see. The nice guy within. The man who found it very hard to ask for help. The family man and husband. The man who did the best job he could even under overwhelming odds. The man who lived life on his own terms and when the time came, left it on his own terms. That's what makes a hero, at least in my book.

73 my friend. It's just not going to be the same around here without you. 73 wherever you are.

The family has suggested that memorial contributions be made to the South Hills Family Hospice or the Wireless Association of South Hills.

(Continued from page 4)

was elected for the 2001-02 term. Condolences, er, Congratulations, gentlemen. (Several cries for a recount were ignored despite allegations that N3SBF held two hands up)

Old Business: W3WH thanked all who helped out in North Park for the ALS Foundation's "Walk-to-D'feet ALS." Big event, and we are definitely wanted back next year. More help from club members will be needed

New Business: KB3FBG presented copies of the eHam.net website to N3ZNI and WN3VAW featuring their mugs. Enjoy your 15 minutes of fame, gentlemen!

N3IDH reported that the next WPA Repeater Council meeting would be held at the South Strabane VFD on January 21st.

Good of the order: N3ZNI reported that WACOM will be involved in the WPA Sportsmen's show Feb 8th, 9th, 10th and 11th. They will have a manned booth with information on Amateur Radio and will be running a Special Event Station, W3C, from the show all four days.

Motion to adjourn: Made by Carol Danko and seconded by N3QMV and carried.

Meeting was adjourned at 2010 hours local time.

After a short break, Tom Dandrea N3EQF then gave us an excellent presentation on his program, Log-EQF. Thanks Tom!

HF Antennas on a Shoestring: [Or, The Animated Ramblings of a Cheapskate Ham]

Steve Lane W3SRL

Editor's Note: As Steve was busy post Thanksgiving getting ready for the Annual Pennsylvania State Bambi Hunt, he sent in some trivia in lieu of antenna stories.

Did you know:

- That Albert Einstein, most widely known for his theory of relativity, was also an accomplished violinist?
- That the song 'Taps' known mostly for being played at military funerals was originally played at the end of the battle day when gentlemen on both sides called it quits to rest up for the next day's battle? It is still played at 10 PM on US military installations world-wide.
- That Thomas Edison, father of the electric light bulb actually was a proponent of using DC current as the US standard, necessitating voltage-boosting stations every couple of miles to overcome line losses; His arch rival Nichola Tesla was a proponent of using AC current which overcame those shortcomings. AC became the standard, but Edison got the credit anyway.
- That according to modern aeronautical engineering principles, the Bumblebee CAN NOT fly!
- That according to the National Fire Protection Association (NFPA) a single working smoke detector, when properly installed will decrease the chance of dying in a house fire by more than 50%? But in the US, more than 50% of all installed smoke detectors either are non-functional or have no battery installed in them! (but in my eleven years as a firefighter I have YET to see a TV remote control in a burned-out home that doesn't have a 9-volt battery in it!)
- That the difference between a QRP signal (<5w) and a 100w signal is only 2 s-units on the receiving end?
- That one of the men who designed the Ford Pinto lost his father in a fiery crash of a Model-A Ford (which had the gas tank located in the cowl area, between the windshield and the engine)
- He vowed to design a safer automobile.
- That 3 db of antenna gain doubles the effective radiated power of a transmitter. (ERP)
- That Air Force General Curtis LeMay, father of the Strategic Air Command was also a ham. (Do you know what his call was?) In the 1950's, he proved that a military aircraft could circumnavigate the globe while staying in constant radio contact with a base station using a revolutionary concept known as Single Side Band. LeMay's partner in this endeavor was none other than Art Collins Jr. of Collins Radio fame.
- What KDKA Radio's original call sign was, what year did it go on the air, and when did it start broadcasting? *Hint: You have downloaded the WASH 2001 Calendar, haven't you?*
- What Pittsburgh broadcaster is older than KDKA (even though KDKA was licensed as a broadcaster first)?
- Do you know what types of distress signals (3) the Titanic sent as it was sinking, and on what frequency? What ship answered the distress call? *Hint: Just watch HBO & Cinemax, they keep showing "the boat movie" over and over and...*
- In the Original Star Trek TV show (the 1960's), according to Gene Roddenberry, what was Captain James T. Kirk's middle name?
- Who is KD4WUJ most widely known as?

President Clinton Signs CB Enforcement Bill

ARRL WebExtra courtesy ARRL

NEWINGTON, CT, November 29, 2000 — President Bill Clinton has signed legislation that permits the enforcement of certain FCC Citizens Band regulations by state and local governments. Amateur Radio operators are exempt from the law's provisions.

Congressional lawmakers saw the measure as a way to give a voice to those experiencing radio frequency interference resulting from illegal CB radio operation. The FCC will not yield its authority to regulate Citizens Band or other radio services, however.

In short, the measure authorizes states and localities to enact laws that prohibit the use of unauthorized CB equipment--consistent with FCC regulations. This would include the use of high-power linear amplifiers or equipment that was not FCC-certificated (formerly called "type-accepted").

Specifically, the bill enables state or local regulation over the "use of Citizens Band radio equipment not authorized by the Commission" and "the unauthorized operation of Citizens Band radio equipment" between 24 and 35 MHz. FCC-licensed stations in any radio service — including the Amateur Service — are excluded from such state or local enforcement, and state or local laws enacted under this legislation must identify this exemption.

Anyone affected by the enforcement of such legislation could appeal to the FCC if they believed the state or local government had overstepped its authority under the new law. Any applicable state or local law would not preclude the FCC from enforcing regulations in a given case at the same time.

The new law also says the FCC shall "provide technical guidance to state and local governments regarding the detection and determination of violations" of any regulations localities might enact.

The bill — HR.2346 is the House version; it was S.2767 in the Senate — actually is the old Senate "Feingold bill" from several sessions ago. After introducing his original version a few years back, Wisconsin Senator Russell Feingold requested assistance from the ARRL to rewrite the measure to ensure that licensed hams could not be affected, that the bill featured a wealth of "due process" provisions, and that the concept of federal preemption over telecommunication activities wouldn't be compromised. The bill signed by the President is nearly identical to the Feingold bill.

The bill's sponsor, Representative Vernon Ehlers of Michigan said Amateur Radio operators encouraged him to introduce the measure in the House last year. Ehlers maintained that the local hams asked him to support the bill because of the bad rap they were getting from illegal CBers using high-power linear amplifiers that resulted in TV and telephone interference while the CBers involved hid behind federal preemption. Ehlers asked the ARRL to review his measure to ensure that it would not unintentionally harm Amateur Radio.

The bill passed the House under suspension in September, and passed the Senate at the end of October under unanimous consent. The measure went to President Clinton for his signature on November 14. A copy of the new legislation is available on the ARRLWeb.

Travel Woes: 2 Opinions

A few words of explanation following a rather disappointing operation from Sri Lanka as **4S7WHG/A**.

The airline managed to lose my baggage containing the R-7000 antenna, the Vibroplex, tools and headphones etc., not to mention all my clothes. I hand carried the IC-706, power supply, laptop etc. When the airline found and forwarded the bags, the Sri Lankan customs impounded the antenna, and all my other equipment and refused to release it without documentation from the Sri Lanka Ministry of Defense, which was unobtainable in the short term. A copy of my Sri Lankan license was not acceptable. I was very lucky to manage to negotiate the release of the equipment in time to load it aboard the homeward bound aircraft.

I did manage a limited operation, mainly on 24 MHz CW and made 584 QSO's with 63 DXCC entities, but it was nowhere near the level of activity which I had planned. — Phil Whitchurch G3SWH

As a traveler over the last 20 years (80+ countries), I cannot think of many countries in the world which do not have restrictions as regards importation of communications gear. In 4S7, it is as simple as forwarding a list with the specs of your gear to the Ministry of Defense prior to your arrival. The engineers having satisfied themselves that the gear is according to specs and comply with the stipulated guidelines, clear the gear for importation. This letter contains quantity/model/make and serial number of all the gear. Once you present this at the airport, everything moves smoothly. Remember, a license is issued to operate an Amateur Radio station and that does NOT include clearance for the importation of gear. Personally, I do not see anything wrong is such a requirement.

Considering the fact that Sri Lanka is a country which is fighting a war against a terrorist group, it is commendable that the administration issues guest licenses without hassles (@ 6\$ a year!). I cannot think of any other nation in South Asia which so easily does so. Most simply DO NOT issue casual guest licenses! Remember also that Sri Lanka issues licenses to nationals from ANY country whether or not a reciprocal licensing agreement exists.

I know that some choose to smuggle in their equipment and then apply for a license/clearance. This of course is breaking the law. I do NOT think that anyone is ignorant enough to think that communication equipment does not have to be declared. I have had problems carrying a transceiver even in TRANSIT via Heathrow, Miami and several other places in the world.

Finally, it would be advisable to refrain from making comments even slightly critical about licensing authorities/customs particularly in highly sought after DX locations. No country is bound by any law or convention to issue guest licenses on a MUST DO basis. I believe how easily you get it, how quickly etc., depends on the extent of hospitality, enthusiasm and courtesy of the authorities. Lets just be thankful and not jeopardize the chances of others who may want to visit/operate from these DX spots in the future. — Ron Goonatilleke 6Y5/4S7RO

Silent Keys



Don Vollant N3KEH, November 16th

DX News Briefs



The Agalega **3B6RF** Dxpediton, postponed in September due to unexpected early elections in Mauritius (won by the opposition party), has been rescheduled for May. They expect to leave port on May 1st or 2nd, arrive May 5th or 6th, and be QRV for 16 days. HB9JAI and F6HMJ are credited for being able to establish good relations with the new government in order to get the trip back on track. The expedition team also reports that they were able to cancel travel arrangements in time to keep monetary losses very low. —HB9BXE, OPDX, 425 DX, W3UR/The Daily DX

The Sir Francis Drake Report:

EP4PTT operates only on 20 SSB and is a direct QSL only. If you are told to QSL via "manager" RZ6LS or work him on another band, you've worked Slim. — KW4MM

EZ8CQ also operates SSB only and has no manager (NOT I2JSB); CW contacts are Slim again! He suggests using registered mail as his mail is often opened and stolen — RA3SL

9L5CE was reported on the DX Clusters 14 times on October 28th, only on 10 meter CW for about an hour, nothing before or since. Await further notice from "manager" JA3CEZ — HB9BGN
ZL3CW was very active as **ZM8CW** — but had no RTTY equipment with him. Any RTTY contacts was with a pirate — ZL3CW, W4ADJ
OD5CM has been very active on 160 & 80 CW, but OD5CN reports that this call was issued to an American who left Lebanon 35 years ago, is presumed dead but is not in country! — SM5DQC

Controversy is brewing over **BY/R1ANF**. It has been speculated that he was a Russian Antarctic Researcher visiting with his neighbors at the "Great Wall" Chinese Antarctic Research station in the South Shetland Islands and may have improvised a call. But Chinese amateurs are vehemently insisting that this operation was a pirate or unauthorized, that there is no special Chinese prefix at present for Antarctic stations, and no foreign amateurs are permitted to sign BY/home call. WFWL! — NT2X, W4FOA, BA1DU, BD7NQ

QSL Routes:

VP2MJJ via W6JKV — OE1002419 **5T5YD** via F6FYD — F6JSZ
TA0A via TA2BK — OE1002419 **ZK1VVV** via W7VV — W7VV
D68BT via EA3BT — EA3BT **CP4BT** via DL9OT — RX9TX
D68WL via EA3BT — EA3BT **ZV7G** via PT7AA — PT7WA
A52UD via K4VUD — N2OO **PS5S** via PP5MQ — PP5MQ
A52AP via N2OO — N2OO **TZ6DX** via K4DX — NEØP
5R8FU via SM5DJZ (ex SMØDJZ) — SM5DJZ
ZC4ZM via 5B4AGN — DU1ODX **P40MR** via VE3MR — VE3MR
BY/R1ANF via RK1PWA — W4FOA **WP3A** via W4DN — W4DN

"Anyone needing Puerto Rico on any WARC Band/Mode, e-mail me his needs & will arrange schedules with **WP3A**. Good CW Man. QSL 100% via W4DN (SASE please)." —W4DN w4dn@sprintmail.com

There will be a Dxpediton to Conway Reef **3D2/C** February 18th to 27th, 160 through 2 meters, using SSB, CW, SSTV, RTTY & PSK31 modes. The operators are primarily Eastern European (YT YU & Z3). More information to come. Donations are being requested as the cost is approximately US\$45,000 —YT1AD

QSL's for **D4A** should be sent to I2MQP at his new address: Mario Ambrosi, Via delle Querce 41, 20090 Rodano Millepini (Milano), Italy. Cards sent to his old address or via WF5E will get answered, eventually, but direct to his new address is fastest. Do not expect reply cards before January, he is awaiting cards — I2MQP

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.

DXCC Update

Bill Moore NC1L, DXCC Manager, ARRL



Effective immediately, DXCC will be posting on the DXCC website a list of applications received and logged into the computer. Just go to the DXCC website and click on List of DXCC Applications Received and a page will appear with the listings in order by callsign. Next to it will be the date received. The period covered by this report will be shown in the paragraph at the top of the page. Also shown at the top of the page will be the period DXCC is entering applications. If you have an application at DXCC and you find your callsign here, it is not necessary to follow up with a request to DXCC.

TXØ and **4W** cards can now be submitted. If you already have a submission in 2000 sending in another one would cost \$20 (\$30 for non-ARRL members) plus postage. In this case it would be better off holding off until 2001 to avoid extra fees. However, if the new entities caused you to drop off the Honor Roll (The new Honor Roll number is 325 current) you will need to bring your totals to 325 by March 31, 2001 which is the cutoff for the Honor Roll list which will appear in August 2001 QST.

Part of the new capital appropriation includes money for a complete upgrade for DXCC. We will be upgrading the software and hardware and this is due to be in place by the third quarter of 2001. Included in this change will be the ability for DXCC to receive, process and return DXCC submissions electronically.

The new DXCC card checking program is off to a good start. We have already noticed increased participation in the program. The new rules make it much easier for both applicants and the card checkers. If you have not read anything on this, the new program allows card checkers to check anything except:

- Deleted entities
- 160 meter cards/awards
- QSO's older than 10 calendar years

Card checkers can check both new and endorsement applications. Benefits now are that you do not have to send your cards to ARRL. However, in the near future electronic processing will not only allow this, but quicker turnaround time will result. This is mainly due to the fact that since you, the applicant, already electronically prepared your application, the card checker will verify it and electronically send it to our secure server. DXCC will not have to do the manual data entry and the application will be uploaded to the computer saving time and program costs. (We are even looking into a savings to be reflected back to those who use the electronic process! Since, as you may know, the manual data entry process is the most costly part of the program).

One final note, when sending e-mail questions to DXCC please use only the address dxcc@arrl.org; it goes directly to me at ARRL.

We'd like to extend our thanks for your continued support of the ARRL and the DXCC program. We look forward to working with you for many years to come. I'm sure that the upcoming computer improvements will prove to help us do our jobs better and, in the long run, better serve you. As always, we appreciate your comments and criticism, as without those we'd understand less how you feel about the job we're doing. We'd also like to take this time to wish you and your families a Happy, Safe and Enjoyable time for the upcoming holiday seasons!

FCC News

ARRL Web Extra courtesy American Radio Relay League

NEWINGTON, CT, Nov 24, 2000 — The FCC says Amateur Extra licensee Michael E. Guernsey, ND8V, of Kalamazoo, Michigan, has agreed to a nine-month suspension of his HF privileges, starting January 1, 2001. FCC Special Counsel for Amateur Radio Enforcement Riley Hollingsworth said that if Guernsey does not violate FCC rules or the license modification agreement, the FCC will clear his file of past complaints in any future enforcement action against his license.



The action came in the wake of allegations that the licensee had caused deliberate interference on 20 meters "particularly communications of Hispanic operators and truckers when you perceived them to have an improperly 'wide' SSB signal or a signal which in your opinion exhibited excessive microphone gain," Hollingsworth said. The FCC also cited allegations that the licensee may have used profanity and obscenity on the air, that he may not have identified by call sign, and that he might have deliberately interfered with communications on the Maritime Mobile Service Net.

Meanwhile, the FCC has told General licensee Jeffrey J. Pipenur, WA8IKW, of Vandalia, Ohio, that it's poised to designate his station license for a revocation or renewal hearing and his operator's license for suspension. The FCC cited monitoring information and "complaints before the Commission" alleging that Pipenur "deliberately interfered" with other amateur communications on 75 meters. Further such complaints could lead to a hearing, Hollingsworth told Pipenur. Last March 1, after considering Pipenur's response to earlier FCC allegations of "deliberate interference, poor Amateur practice, and operation contrary to" FCC rules, the FCC set aside his renewal grant and renewed his license for one year. In his response, the FCC said, Pipenur did not deny the activity, apologized, and consented to the short-term renewal.



Happy
Holidays
From
WASH!



FYI Networks

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 AMSAT-OSCAR 40 (Phase 3D)
- 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 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

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:

- Don't Forget! WASH Christmas Party on December 14th at John McMillan! Please, let Carol Danko Know If You're Coming!
- A Remembrance of N3KEH (SK)
- Hollow State Ramblings
- WASH 2 Meter Simplex Contest
- Where We're Going in 2001
- Announcing WASHFest 2001!

All that and more... and Happy Holidays and a Happy New Year, too!



*Happy
Holidays
To All
From the
Wireless
Association of
South Hills
N3SH
WA3SH*

