



WASHRAG™

www.washarc.org



Volume 4 Issue 3

March 2002

N3SH
WA3SH

Wireless Association of South Hills

Good Friends, Great Time: *WASH*Fest 2002!

It's not often at the end of a day that we get to look back and realize that we are completely satisfied with the results. Sunday February 24th though was that kind of a day at *WASH*Fest 2002. The day started with plenty of willing help and we didn't forget anything that was vital to our success. Next our vendors arrived in plenty of time to move in to the hall, get set up and still enjoy a hot cup of coffee and a donut before everyone arrived.

Although we missed having "Lightning Bolt" Mike and Batteries Plus there were plenty of wares for the many Hams who supported us thanks to TLC Embroidery, EQF Software, Radio Shack, Eco Quest. Of course lots of individuals set up tables and offered their "treasures" to the deserving. While all this was going on Ed N3ZNI, Jacqué N3ZEL and Jack from Hoagie Haven, our caterer, kept smiles on everyone's face with great hamfest food. To make things even better Frank, KB3FZU of WPXI set up a High Definition TV which was the hit of the show! The pictures of the Olympics were just wonderful.

If there was a downside to our day it was that Steve W3SRL who has shepherded each of our *WASH*Fests to success couldn't be with us due to other commitments. It felt strange not seeing Steve running around everywhere doing just about everything. Steve we know the show was successful because you set it all up and showed us the way. Thanks for all your work and dedication on behalf of our club.

Naturally thanks to all the WASH members who helped so willingly and without conflict.

It's extraordinary what we can accomplish when we work together. Lets keep up this spirit and apply it everything we do as a Club.

73, Bill Hill W3WH
Co-Chairman,
WASHFest 2002



As Paul NØVLR looks on, Teen Net members Michael KB3HFP and Barbara KB3HAS have their first-ever eyeball QSO at *WASH*Fest
Photo courtesy of & ©2002 Bill Hill W3WH



Carol KB3GMN & Shirley KB3GMP at the club table, observing the smiling through!
Photo courtesy of & ©2002 Mike Serowik N3BSQ

Main Prize Winners

Congratulations to our *WASH*Fest 2002 Main Prize Winners:

- ◆ 1st Prize: ICOM IC-207: N3BPB
- ◆ 2nd Prize: MFJ-269: KB3GMN
- ◆ 3rd Prize: RS HTX-245: K3WJL
- ◆ 4th Prize: ICOM IC-V8: N3ZEL
- ◆ 5th Prize: FRS HT Pair: KB3WA

Carol KB3GMN was ecstatic as this was just the prize she wanted to win! (& Rich can't touch it!) Jacqué N3ZEL was so surprised, she let us take her picture!

Ron K3WJL related that this was the first main hamfest prize he's ever won in 42 years! And when notified on the repeater that he'd won first prize, Bill N3BPB was so thrilled that he turned around and came back to personally pick up his radio (and KB3WA's prize too).

Next Meeting: March 14th, 2002

The next monthly meeting of the **WIRELESS ASSOCIATION OF SOUTH HILLS, INC.** will be Thursday, March 14th, at the **John McMillan Presbyterian Church**, 875 Clifton Road, Bethel Park, starting at 7:00 PM.

Our guest speaker will be noted DX'er John Getz AD8J of the WPA DX Association, who will be talking about his experiences.

Talk-in on the 146.955(-) N3RNx/R and 443.650(+) N3BV/R Repeaters (131.8 PL). All members, guests and interested parties invited!

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

LOOKING
AHEAD:

- **WACOM Hamfest, Washington Co. Fairgrounds, April 28th**
- **Dayton Hamvention, May 17th, 18th & 19th**
- **Breeze-shooters Hamfest, June 2nd**
- **Field Day June 22nd & 23rd**

March 2002

Sun	Mon	Tue	Wed	Thu	Fri	Sat
	2 Rivers ARC Hamfest				1 Elco ARS Meeting	2 ARRL DX SSB Pgh Antique RS Meeting WPA Hilltoppers VE Tests RA Erie VE Tests Nittany ARC Coffee Call
	Foothills ARC Hamfest			SW PA Packet Group Meeting		
3 ARRL DX SSB Ellwood City ARA Meeting QCWA Pittsburgh Net South 1 ARES Net North Hills ARC Teen Net WASH FM Net	4 Breezeshooters Net 2 Rivers ARC Net Triple 'A' ARA Net Beaver Co Public Service Net	5 SHBP&M Meeting Skyview RS Meeting Butler Co ARA Meeting North Hills ARC Net WACOM Net SATERN Net	6 Uniontown ARC Meeting Steel City ARC Social Nite Allegheny Co SKYWann Net Allegheny Co ARES Net Westmoreland Co ARES Net	7 WACOM Meeting RA Erie Meeting	8 Butler Co ARA TechFest	9 Breezeshooters VE Test Tri-County CW ARC VE Test 2 Rivers ARC Ham'n'Eggs North Hills ARC Breakfast Quad Co ARC Breakfast North Hills ARC Elmer Net
10 QCWA Pittsburgh Net South 1 ARES Net North Hills ARC Teen Net WASH FM Net	11 Bum of the Month ARL of Lawrence Co Meeting Breezeshooters Net 2 Rivers ARC Net Triple 'A' ARA Net Beaver Co Public Service Net	12 Foothills ARC Meeting Coke Center ARC Meeting Ft.Venango M&KC Meeting Punxsatawney AARC Meeting Nittany ARC Meeting North Hills ARC Net	13 North Hills ARC Meeting Laurel Highlands VHF5 Mtng. Steel City ARC Social Nite Allegheny Co ARES Net Westmoreland Co ARES Net	14 WASH Meeting Horseshoe ARC Meeting Beaver Valley ARA Meeting Triple 'A' ARA VE Test	15 2 Rivers ARC Meeting Quad County ARC Meeting	16 Horseshoe ARC VE Test Nittany ARC Coffee Call North Hills ARC Elmer Net
17 St. Patrick's Day Elk Co ARC Meeting QCWA Pittsburgh Net South 1 ARES Net North Hills ARC Teen Net WASH FM Net	18 Monessen ARC Meeting Steel City ARC VE Test Breezeshooters Net 2 Rivers ARC Net Triple 'A' ARA Net Beaver Co Public Service Net	19 Steel City ARC Meeting Tri-County CW ARC Meeting McKean Co ARC Meeting Juniata Valley ARC Meeting Pymatuning ARC Meeting North Hills ARC Net	20 Spring Begins Huntington Co ARC Meeting SATERN VE Test Allegheny Co SKYWann Net Allegheny Co ARES Net Westmoreland Co ARES Net	21 Triple 'A' ARA Meeting Somerset Co ARC Meeting Greene Co ARC Meeting Cumberland Valley ARC Mtng.	22	23 Groundwave SSB North Hills ARC Elmer Net
24 Palm Sunday QCWA Pittsburgh Net South 1 ARES Net North Hills ARC Teen Net WASH FM Net	25 Breezeshooters Net 2 Rivers ARC Net Triple 'A' ARA Net Beaver Co Public Service Net	26 Mercer Co ARA Meeting Triangle ARC Meeting North Hills ARC Net WACOM Net SATERN Net 6PVHFS Swap'n'Shop Net	27 Passover Begins Ft. Armstrong WA Meeting North Hills ARC Activity Nite Steel City ARC Social Nite Allegheny Co ARES Net Westmoreland Co ARES Net	28 Holy Thursday WACOM Board of Directors Meeting	29 Good Friday	30 CQ WPX SSB WASH Breakfast Nittany ARC Coffee Call North Hills ARC Elmer Net
31 Easter CQ WPX SSB QCWA Pittsburgh Net South 1 ARES Net North Hills ARC Teen Net	4/1 Greater Pgh VHF5 Meeting Breezeshooters Net 2 Rivers ARC Net Triple 'A' ARA Net Beaver Co Public Service Net	4/2 SHBP&M Meeting Skyview RS Meeting Butler Co ARA Meeting North Hills ARC Net WACOM Net SATERN Net	4/3 Uniontown ARC Meeting Allegheny Co SKYWann Net Allegheny Co ARES Net Westmoreland Co ARES Net	4/4 WACOM Meeting RA Erie Meeting	4/6 Elco ARS Meeting	4/6 North Hills ARC Elmer Net

WASH 2002 OFFICERS

THE LEGAL STUFF

EXECUTIVE COMMITTEE:

President	Paul Lusardi NØVLR
VP/Secretary	Frank Bobro KB3FZU
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	Jacqué Gosselin N3ZEL
Webmaster	Bob Sanford AA3FI
Quartermaster	Harold Rosenberger KB3CPI
N3SH/WA3SH WASH Net Managers	
FM Net (2 Meter & 70 cm)	Bryan Beyer K3OL
Digital (10 Meter)	(open)
WASHFest 2003 Co-Chairman	Steve Lane W3SRL
(South Hills Hamfest)	Bill Hill W3WH
Activities & Operating Events	Bill Hill W3WH
Field Day 2002 Chairman	Larry Comden K3VX
Ways & Means	Carol Danko KB3GMN
Media Communications	Kevin DeRose N3KFD
Allegheny Co ARES Representative	Ben Williams KB3ERQ

CLUB-AFFILIATED REPEATERS:

Mt. Lebanon	N3RNX/R	146.955 -	PL 131.8
Mt. Lebanon	W3SRL/R	442.550 +	PL 131.8
Canonsburg	N3BV/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. All radio amateurs, WASH members or not, are welcome to join in! The **10 METER DIGITAL N3SH/WA3SH WASHNET** is on Hiatus until further notice. Please contact Paul NØVLR for more information.

"The WASHRag™" (formerly **"The Mariner™"**) is the Official Newsletter of the **WIRELESS ASSOCIATION OF SOUTH HILLS, INC. (WASH)** Published Monthly with occasional Special Editions as warranted. This issue is © Copyright 2002 by the **WIRELESS ASSOCIATION OF SOUTH HILLS, INC.**

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The **WIRELESS ASSOCIATION OF SOUTH HILLS, INC.** was founded in 1993 as the original **SOUTH HILLS AMATEUR RADIO CLUB**, and operated under that name through 1998. WASH was also known briefly in late 1998 as the **N3SH AMATEUR RADIO CLUB**. It is not in any way affiliated with the "South Hills Amateur Radio Club, Inc." and is not responsible for that group, it's members, or it's actions in any way shape or form.

As always, special thanks to the owners of both the N3RNX/R Repeater System and the N3BV/R Repeater System for permitting the **WIRELESS ASSOCIATION OF SOUTH HILLS, INC.** and it's members to use their repeaters for club purposes.

WASH Amateur Radio Club News Briefs

Next WASH VE Test April 18th!

Our Next VE exam sessions will be **Thursday, April 18th, 2002**, at **7:00 PM**, at the **John McMillan Presbyterian Church**, 875 Clifton Road, Bethel Park, PA. Talk-in on the 146.955 MHz and 443.650 MHz repeaters. All examiners are ARRL VEC affiliated.

Walk-ins are always welcome, but if you plan on attending the test session, please contact VE Team Liason Jacqué Gosselin N3ZEL: Telephone (724) 746-9235 or E-Mail: n3zel@fyi.net

Please bring the following to your test session:
 Picture ID or other suitable identification (2 forms of ID required)
 Pen / Pencil / Calculator
 Original FCC license plus a copy of license (if upgrading)
 Original CSCE plus a copy of CSCE (if upgrading)
 Check or Cash in the amount of \$10.00 (payable to: ARRL VEC)

The WASH Breakfast Gang had a day-before-WASHFest gathering on February 23rd over coffee and discussion at **Dietz's Restaurant**. This month's contingent included W3RWS, W3WH, N3RNX, K3VX, KB3CPI, KB3FNM, KB3ERQ, WN3VAW & Jessie. In addition to WASHFest, discussions covered antennas, gun clubs, the 2 Meter contest, Field Day, mobile operating, and the usual assortment. Why not join us at our next one? The next Club Breakfast will be Saturday, March 30th, at **Dietz's Restaurant**, Caste Village Shops, Baptist & Grove Roads. Come down and share a cup of coffee with us! Hope you can make it!

Contest Feedback: No matter how you try, you're just not going to please everyone. Apparently there's a local net on 2M Simplex Saturday nights at 10 that suffered some contest QRM this year. So, we're going to clarify the rules next year to indicate that if a contest frequency is in use by non-contesters, or a scheduled net comes up on a contest frequency, please be courteous to those amateurs and "yield the right of way" — QSY.

Hamfest Results: So you're wondering, just how well did the club REALLY do at WASHFest? Well, our policy is not to print financial information in the newsletter, so you'll have to come to the meeting to find out first hand. But the early indications from Mark N3RDV, based on the numbers he has on hand, is that we saw increases in everything. Prize ticket sales were up, and we may be seeing our **2nd consecutive 10+% increase** in paid attendance!

A Nice Touch: OK, maybe it's just because we're the first WPA hamfest of the year, but it's still a nice compliment to see the number of other area clubs who come to WASHFest to advertise their own events and hope to attract some of our attendees. Spotted doing so were representatives of the **Two Rivers ARC**, **Foothills ARC**, **WACOM**, **SW PA Packet Group**, **Pittsburgh Antique Radio Society**, and the **Breezeshooters**. Good luck guys! Also taking advantage of WASHFest was Allegheny County EC Kathy KA3VXM, seen signing up new ARES members & volunteers for the Pittsburgh Marathon.

Club Liaison for ARES Net: Ben KB3ERQ stepped up last month and assumed the role of the club "rep" to the weekly Allegheny County ARES/RACES net, Wednesday nights at 9 PM on the 147.09 Repeater. Thanks Ben! And again, thanks to Frank N3XI who had to step aside due to time commitments, and Mark N3RDV for filling in the last few weeks.

BY1HAT: We were saddened to hear at WASHFest that Jeanne "The Hat Lady" Bey, a local hamfest fixture for years, has been seriously ill recently. Get well soon Jeanne — we miss you!

On a similar note, "Lightning Bolt" Mike Duddy WB3ECM was unable to attend WASHFest this year due to a family emergency. We all hope all is well with both him & his family. (Not to worry, though, Mike was with us in spirit — the N3SH talk-in station used a Lightning Bolt 4 Element 2 Meter Quad for our antenna!)

Dayton 2002: Not Too Late!

If you'd still like to stay with the WASH Contingent at the University of Dayton, we may have one or two spots left in our five suites. Contact Greg KQ3DX via e-mail at kq3dx@hotmail.com to see if anything's left.

Meanwhile, the BUTLER Co ARA W3UDX is sponsoring their annual Dayton bus trip, and they will also be staying at the U. of Dayton! Buses leave Butler at 6:30 AM on Friday, May 17th, with a 7 AM stop at the Butler's Days Inn, 7:40 AM stop at the Cranberry Mall, & 9 AM stop at the Ohio Valley Mall in St. Clairsville, OH. They will return Sunday evening, May 19th (exact return times vary).

Cost is \$145 per person (double occupancy) which covers the bus and dorm room **but not** the Hamvention ticket. Reservation deadline is April 15th, and you need to indicate where you are boarding the bus and who you wish to share a room with, if you have a preference.

Send Payment & Reservation information to:

Opal Drexler WB3ITS
 505 Leesburg Station Road
 New Wilmington, PA 16142
 Phone: 724-533-5836

You will receive a postcard confirming your paid reservations. Payment in full is required with each reservation, and checks should be made payable to BCARA.

The dorm rooms are suites consisting of a living room, two 2 bed bedrooms, and a kitchenette. Towels and bed linens are provided. You must bring your own television and cooking utensils.

The Bad News:
 Due to a scheduling foul-up at the Washington County Fair Grounds Office, the annual WACOM Hamfest has been pushed back one week to April 28th. [A gun show was booked for the 21st]

The Good News:
 At least they did get pencilled in for a date and not forgotten about altogether!

Future Meeting Guest Speakers (Subject to Change):

April 12th: Konrad Kammerer W3KK, Pittsburgh Marathon
 May 9th: John Rodgers N3MSE, WPA Section Manager
 June 13th: Barry Kaplan KB3GKT, Pgh. Vintage Grand Prix
 TBA: Tom Dandrea N3EQF, EQF Software

WASH 2002 Dues are PAST DUE! Don't put it off, renew your membership today!

Minutes, February 14th Meeting

Ron Notarius WN3VAW, Acting Secretary, WASH

Meeting was **called to order** at 19:15 hours by Paul Lusardi NØVLR.

There were 36 members and 2 guests present.

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

Introductions were then made all around, as is our custom.

A motion was made to **accept the minutes** of the January meeting, as published in the newsletter, was made by Rich N3SBF, and seconded by Ted WN3BOJ, and carried.

Committee Reports:

Treasurer (N3RDV): Read and accepted.

Secretary (NØVLR) for KB3FZU: Working on a "welcome!" flyer and brochure for new members and to bring back old ones.

VE Report (N3ZEL): Next VE session on April 18th, 2002.

Repeaters (W3SRL /N3RNK): All playing well. GMRS Repeater being co-located at the site. Possible I-link to 442.55 being explored

FM Net Report (K3OL): Circulating a questionnaire about the net. NCS dates open for February and March, please volunteer!

Public Service (N3RDV): St. Patrick's Day parade, March of Dimes Walkathon, and Pittsburgh Marathon coming up. Konrad W3KK is not coordinating the Marathon coverage this year. Ben KB3ERQ is now the club liaison to the Allegheny County ARES Net. (applause)

Contests (N3UE): Breezeshooter's CW Contest February 23rd, Phone March 23rd. **(N3ZNI)** 47 Logs submitted for the WASH 2M FM Simplex contest by deadline, results now available. **(K3VX)** ARRL DX Contest CW February 16th-17th, Phone March 2nd-3rd, CQ WPX Phone March 30th-31st.

Activities (NØVLR): Trying to schedule Richard Kane for the SKYWarn session, but date conflicts a problem. His schedule will be published on the reflector once available. **(WN3VAW)** All funds for Dayton have been received & sent in. There may be one or two spots left, contact Greg KQ3DX for info. Butler Co ARA is sponsoring a bus trip which will stay overnight at Univeristy of Dayton, details will be in next newsletter for anyone interested.

Hamfest (W3SRL/W3WH): Table sales on par with this time last year. Prizes purchased and available for inspection tonight. Overall, all looks good. Steve is being shipped overseas on the 15th, so Ron WN3VAW will take over his duties. All calls on tables should be referred to Bill. Hall will be open by 5 for setup, 6 for vendors, 8 for the public.. Now is the time — please —talk it up on area nets.

Newsletter (WN3VAW): Nothing new.

President's Report: As per our custom, March will be a post-hamfest Pizza Night celebration. AD8J will be guest for March meeting to talk about DX & Dxpeditons. ARRL WPA SM N3MSE will be guest for May. Butler County ARA sponsoring a Tech-Fest on March 9th. Send-off for Steve planned for Al's after the meeting.

Old Business: none

New Business: NØVLR — is there interest in a CW refresher night? Show of hands indicated support of the idea. Post-April meeting a possibility. Also, regular code classes available every Wednesday Night at the Salvation Army EDS Building in Greentree.

Ed N3ZNI moved to raffle off a "high end" HF rig at Dayton 2002 as a club fund-raiser. Second by Paul NØVLR. After discussion of the idea, motion tabled due to tack of time and uncertainty that we'd be allowed to do this by DARA.

Bob W3RJM moved to extend to Bob AA3FI a family membership to compensate him for monthly costs of maintaining the club web sight and space required. Second by Ed N3UE. During discussion, Paul NØVLR suggested modifying motion to provide Bob with 20 raffle tickets to the hamfest instead, but there was no second and amendment failed. Motion passed unanimously.

Good of the order: Steve W3SRL provided more information on the

(Meeting Minutes Continued on page 5)

WASH Spotlight: W3RWS & N3RNK



Enjoying lunch and a few quite moments to chat behind the **WASHFest 2002** Test Bench were Bob W3RWS and Pete N3RNK. The crowd kept Pete busy all day, he didn't get too many chances like this! Photo courtesy of & ©2002 Dave Imhoff W3HND

Photo Credit: The Pepperoni Pizza pictured on Page 12 is courtesy of the **Pizza Outlet** web site. Seemed appropriate, as we always buy the March meeting pizzas from them!

Monthly WASH Breakfast Saturday, March 30th



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



Join us at **Dietz's Restaurant**, Baptist and Grove Roads in the Caste Village Shops. Start time is about 8 AM until whenever. Monitor 146.955 & 443.650 for talk-in or any last minute changes. All are welcome, WASH members or not, amateurs or not! See you there!

Wireless Association of South Hills Membership

AA3FI	KB3FGO	N2QIV	N3VEH	W3RJM
AA3JS	KB3FNM	N3BSQ	N3VVL	W3RWS
K3BZW	KB3FQT	N3CCC	N3VWF	W3SRL
K3LIE	KB3FZU	N3CZZ	N3WPT	W3VFA
K3OL	KB3GMN	N3HKQ	N3XFE	W3WH
K3VX	KB3GMO	N3IDH	N3XI	W4ZE
K3WR	KB3GMP	N3INT	N3YPB	WA3JPP
KA3PPH	KB3GMU	N3KFD	N3YQY	WB3BPH
KA3TFB	KB3GOT	N3MJK	N3ZCG	WB3GTL
KA3TWI	KB3GZG	N3QMV	N3ZEG	WN3BOJ
KA3UPY	KB3HFP	N3RDV	N3ZEH	WN3VAW
KA3WZO	KD3JV	N3RHT	N3ZEL	
KA3YTS	KE3XB	N3RNK	N3ZNI	Paul Rosa
KB3ANH	KE7FD	N3SBF	N4MIS	Barbara Misis
KB3CPI	KE8RN	N3SRC	N8DPW	K3EED (SK)
KB3DCO	KQ3DX	N3TBK	NP2JF	N3KEH (SK)
KB3DSB	NØPEU	N3TES	W3GEL	N3OBD (SK)
KB3ECD	NØVLR	N3UE	W3HND	N3SKR (SK)
KB3ENX	NØWPV	N3UIW	W3JAF	W3ZLK (SK)
KB3EPC				
KB3EPI				
KB3ERQ				

Through February 28th, 2002
List compiled by
Mark Stabryla N3RDV, Vice President/Treasurer

A History of Amateur Tickets

Excerpts courtesy www.ac6v.com, suggested by Ted Pinsker WN3BOJ

1922 There were two grades of Amateur Radio Licenses, Amateur First Grade and Amateur Second Grade. License requirements for the two grades of licenses, were the same except the second grade license was issued only where an applicant could not be personally examined by a Department of Commerce US Radio Inspector for the district. Applicants were required to demonstrate technical expertise in adjusting and operating equipment, and a knowledge of International Conventions and US laws. The code requirement was ability to transmit and receive in the Continental Morse at least 10 words per minute and recognize important signal usage of the day (distress and "keep out" signals). General amateur stations were restricted to 200 meters and down with input power not to exceed 1 kW. Amateurs within five nautical miles of a military station were restricted to 500 Watts.

1928 The Federal Radio Commission announces that all old licenses issued by the Department Of Commerce will be terminated on August 31, 1928. Applications under the new licensing system must be submitted no later than July 31, otherwise the applicant must submit to re-examination. Beginning October 1, **1928**, the new W and K prefixes were assigned to Amateurs.

The Communications Act of **1934** created the **Federal Communications Commission**. Amateur Licenses are reorganized into Class A, Class B, and Class C:

Class A- 13 wpm code test, sending and receiving. Basic and advanced written tests on theory and regulations. At least one year of experience as a Class B or C licensee. Exam given at FCC examination points only. All amateur privileges

Class B- 13 wpm code test, sending and receiving. Basic written test on theory and regulations. Exam given at FCC examination points only. All amateur privileges except 75 and 20 meter phone were granted with a Class B license

Class C - Same as Class B, except tests given by mail

All licensees had to be US citizens. If you lived within 125 miles of a quarterly examining point, you had to appear in person for the exam. If you lived more than 125 miles from an examining point, or had a permanent physical disability that prevented you from going to an exam session, or were on active military duty, the Class C exam could be taken by mail. This was monitored by a volunteer examiner (another ham or a commercial licensee).

After World War II, about **1946**, the tenth call district was added. Except for the redrawing of the boundaries, things remained the same until 1951.

In **1951**, the FCC eliminated the old Class A, Class B, and Class C licenses, and added three new classes of licenses: Novice, Technician, and Amateur Extra. The license classes were now Novice, Technician, Conditional (old Class C), General (Old Class B), Advanced (Old Class A), and Amateur Extra Class licenses. No new Advanced licenses would be issued until Incentive Licensing begins in 10 years, but they could be renewed. Novices could get a one year, non-renewable license, which had a special 2x3 call sign with the letter N following the W, e.g., WN2ODC, WN6ISB. With an upgrade, the N was dropped. The Technician Class is created for experimentation, not communication, and has privileges only above 220 Mc. Conditional license privileges remained the same as General but given by mail, provided the applicant lived far enough away from the nearest FCC office.

Around 1953, the FCC was running out of W 1x3 call signs. So 1x3 K calls began to be issued in the 48 states, with US possessions receiving 2x2 and 2x3 K calls. Novice calls in the 48 states continued to have the N (such as KN4LOD) which was dropped after upgrading.

(Licenses Continued on page 7)

2002 City of Pittsburgh Marathon Needs YOU!

Konrad Kammerrer W3KK

The UPMC Health System/City of Pittsburgh Marathon has again requested Amateur Radio's participation in this year's event. The Marathon will take place on **Sunday, May 5th, 2002**. If you were a part of the success of last year's operation, I hope that you will be willing and able to join us again this year. If you are new to the hobby or have never participated in this event, we need **YOU**.

As in the past, we will be providing vital and necessary communication to ensure the safety and well being of all the runners and spectators. The tragic events of September 11th have not been lost on this year's race. Amateur radio is again being asked to be the "eyes and ears" of the Marathon. More than 150 amateur radio volunteers will be needed to support this effort. Over the past 5 years, the number of amateur radio volunteers have steadily dropped. I need your participation! I'm also asking you to recruit 1 operator who has never participated in this event. This is an opportunity for you and amateur radio to provide a public service to our community, as well as being part of this prestigious event. *(Editor's Note: You do not have to be an ARES member, or even a resident of Allegheny County, to participate — any amateur, anywhere, who'd like to come and help is more than welcome!)*

Registration is easy. Go to <http://www.cs.pitt.edu/~hoffman/marathon.html>, fill out the form and hit send. That's all there is to it. You can also go to the UPMC/City of Pittsburgh Marathon web site, <http://www.upmc.edu/pghmarathon/>, to find out more about the event. You can also register as an amateur radio volunteer from this site. You will receive your assignment and detailed instructions the week of the event. A pre-race meeting will also be held the day before the Marathon to answer questions and to pick up your credentials, hat and shirt.



Face it: it just wouldn't, couldn't, be a WASH event without Kevin N3KFD in one of his favorite poses: either eating or about to eat!

More photos on Page 6

Photo courtesy of &
©2002 Bill Hill W3WH

(Meeting Minutes Continued from page 4)

iLink software. He may try to access the 442.55 machine from Turkey. Any interest, see Steve. Ted WN3BOJ mentioned that the CMU club is using it. NØVLR reminded everyone of the post-meeting send-off for Steve at AI's.

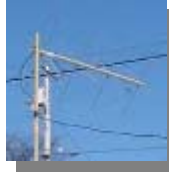
Motion to adjourn by Rich N3SBF, second by Carol, KB3GMN, and carried.

Meeting was **adjourned** at 20:30.

Dear Steve: Had a GREAT WASHFest, Wish You Were Here!



Bob W3RJM, Shirley KB3GMP, & Hank KB3FNM late in the morning at the club ticket table.
Photo courtesy of &



Talk-in: 4 Elements, No Waiting!
Photo ©2002 Mike Serowik



The record turnout was music to our ears!
Photo courtesy of & ©2002 Mike Serowik N3BSQ



Michael KB3HFP & his "new" Heathkit HW-2036A thanks to AI KA3UPY
Photo courtesy of & ©2002 Bill Hill W3WH



Coffee, anyone? Free coffee courtesy HRIA, Photo courtesy of & ©2002 \ Bill Hill W3WH



WPA DXCC Card Checker Mke K3AIR, with ARRL WPA Section Manager John N3MSE getting settled in at the ARRL table.



The brain trust: (L to R) Paul NØVLR, Mark N3RDV, Dick N3QMV
Photo courtesy of & ©2002 Bill Hill W3WH



Lori KB3GMU watches the HDTV screen & tells Frank KB3FZU how to point the antenna.



"The Voice of WASHFest 2002," Bryan K3OL. Photo courtesy of & ©2002 Dave Imhoff W3HND



Shtuff, shtuff, and more shtuff!
Photo courtesy of & ©2002 Dave Wagner KB3GOT



The hall filled up with amateurs from the entire tri-state area, starting right after the doors opened at 8 AM — and pretty much stayed that way until just before noon!

Our thanks to everyone who helped make WASHFest 2002 another huge success — the attendees, the vendors, Jack from Hoagie Haven, and last but not least, all of the WASH members who came and helped, who stuffed flyers, and who talked it up on the air!

Results, 2nd Annual WASH 2M FM Simplex Contest

Ed Oelschlager N3ZNI, Contest Chairman

WASH MEMBER HIGH POWER		
CALLSIGN	NAME	SCORE
N3RNX	PETE	4180
WN3VAW	RON	2912
W3RWS	BOB	2268
N3ZNI	ED	1748
N3ZEL	JACQUÉ	816
KB3FZU	FRANK	799
KB3CPI	HAROLD	640
KB3GMP	SHIRLEY	570
KB3GMU	LORI	533
NØWPV	ANNETTE	420
NØVLR	PAUL	351
N3UE	ED	10
KB3FZV	PAM	2

NON-MEMBER HIGH POWER		
CALLSIGN	NAME	SCORE
KF3CY	ANDY	2937
WO3X	JOHN	2370
KA3KSP	JIM	1408
N3XTB	ED	1132
KB3HAT	DAVE	931
KB3DVD	ADOLPH	665
N3BPB	WILLIAM	612
WB3EKR	RANDY	406
N3YNC	ED	403
KB3GUZ	GARY	325
N3TTE	JOE	242
KB3DDF	RONALD	150
N3LZV	BRIAN	78

WASH MEMBER LOW POWER		
CALLSIGN	NAME	SCORE
W3JAF	JEFF	6402
KB3GMO	TOMMY	3726
W4ZE	TED	2604
N3CZZ	BOB	2478
KB3FQT	KEITH	2464
KB3FNM	HANK	2354
N3HKQ	KEVIN	2156
WB3GTL	TOM	1692
KB3ERQ	BEN	1462
K3OL	BRYAN	1036
KB3GOT	DAVE	170

NON-MEMBER LOW POWER		
CALLSIGN	NAME	SCORE
KB3GUZ	GARY	1512
AA3UV	DON	1440
KB3FLX	GREGG	48
N3VHJ	DAVE	8

CLUB STATIONS		
CALLSIGN	NAME	SCORE
W3LWW	FOOTHILLS ARC	5650
W3KWH	STEEL CITY ARC	4968
N3SH	WASH ARC	2945
WA3SH	WASH ARC	1260
WA3COM	WACOM ARC	672

Contestant Comments:

"This was a very fun contest. I heard one person comment that they never heard a pile up on 2 meters before. I had to drive a little, stop and try and then drive some more. It was challenging but also fun with a HT and 5 watts." — KB3ERQ

"I had more fun working the contest this year, than last year. It's a fun and great idea, and allows me to know how I'm getting out on my 5W HT on a J-Pole only 8' off the ground!" — KB3GIO

"What a blast. I had a wonderful time! Even my mike-shy son Tony KG4JJK got on the air and made some contacts." — W4ZE

"I screamed around the house all day, finally putting together a 5 element Yagi out of scrap metal. By the time I got it made, and hooked to the ICOM 3200 (in the car), and tuned for about 1.4:1 SWR, it was already dark and I just could not climb the 40 foot tower, covered with ice, in the dark. So, I put it on the edge of my 2nd floor deck and tried to point it at you. But the addition on my house blocks all radiation due north of me, and severely impacted the pattern of the Yagi on the deck. On top of that, at the height of the deck, I was aiming through about 50 yards of Maple and Cherry trees" — K3EE (Western MD)

See you next year — January 11th, 2003!

(Licenses Continued from page 5)

1954 The Novice and Technician licenses became so popular that the FCC made them available by mail only. 50 kHz of 20 meters was lost to other services, and the distance requirement for a Conditional license was reduced to 75 miles.

In **1955**, Technicians are given 6 meter privileges.

About **1956-1958**, the FCC started to run out of 1x3 K and W calls in some districts and began re-issuing expired W and K calls before going to the WA's. For example, when K2ZZZ was issued, they went back and re-issued some expired W2 and K2 calls. Up until this point, a normal sequential call sign was always a 'first issue'. At some point, 1958 or so, perhaps when all available expired calls had been re-issued, the FCC began issuing 2x3 WA calls, then WB as necessary. Novices were given WV instead of WN. The V would change to an A or B upon upgrading. A few years later, the FCC reverted back to the Novice N scheme. With the uneven amateur population in the ten call districts, it took time for the K calls to run out in the some areas. In some districts, K calls were issued as late as 1964.

1967 The FCC announced Incentive Licensing and over the next 2 years, General and Conditional operators lost portions of the 75-15 meter phone bands, the Advanced Class is reopened to new applicants, Extra and Advanced Class operators get sub-bands on 80, 15 and 6 meters, the Novice license term is extended to two years, however Novices lose their 2 meter phone privileges.

1977 Technicians are given privileges on 144.5-148 MHz, and have Novice privileges. The mail order Technician license is eliminated and new applicants must appear before the FCC.

1978 saw the Novice license term extended to 5 years and made renewable, the Conditional class license abolished (existing Conditionals became Generals), and secondary station licenses were abolished. Prior to this time, when a ham upgraded, the privileges of the new license class could not be used until the actual license arrived in the mail - usually six to eight weeks after the test was passed. "Instant upgrading" ended the wait by allowing hams to immediately use their new privileges by adding a "temporary identifier" at the end of their call, which would signify that they had recently upgraded. No more waiting weeks for the actual license to arrive in the mail.

1984, the 10 year license replaces the 5 year term. The FCC begins to phase out of giving Amateur exams. A Volunteer Examiner Program is started, but there was an overlap period of about a year where the FCC gradually eliminated their involvement.

1987, Novices and Technicians receive 10 meter SSB privileges from 28.3-28.5 MHz.

1991 V/UHF No-code licenses begin — and the No-Code Technician is born. Technicians with code elements become known as "Tech Plus."

April 15, 2000 — Current Amateur Radio License System. Only three license classes are now issued — Technician, General, and Amateur Extra — and a single Morse code requirement — 5 WPM. No new Novice and Advanced licenses to be issued, but licenses issued prior to this date retain their current operating privileges.

Silent Keys



Bill Files W3SAY, State College, January 5th
Col. Philip "Scotty" Sullivan W3AIC, McKeesport, February 7th

What's a TechFest?

Butler Co ARA Courtesy Kevin Berry KF4RMA

It's a free gathering of Hams from everywhere, where they can see and exhibit special skills and displays of interest to Ham Radio enthusiasts, and enjoy one another's company. It'll be like the High School science fairs in which so many Hams have participated.

What kinds of exhibits and forums will be at the TechFest? That depends on what you want to do! If you can provide an exhibit or demonstrate something of interest to Ham Radio operators, we need you! From basic to advanced, we'd love to see lots of live, especially hands-on stuff. Things like PSK31, APRS, ATV, Satellite, soldering, home-brewing, QRP, R/C, Packet, computers, etc. are all bound to be very popular! We're going to have on-air stations too!

The Butler County TechFest will be held in conjunction with the Butler Co ARA W3UDX's 50th Anniversary Celebration, March 9th, from 9 AM until 3 PM at the Butler Township Park, 486 S. Duffy Road, Butler Township. Or go to www.qsl.net/w3udx/techfest.htm for maps and more details. Talk-in on the 147.360+ W3UDX/R repeater system.

Remember, this is a free event. Ample free parking is available, there is a large indoor dining area, and the food vendor is the Ellwood City Amateur Radio Association. For more information, contact Kevin Berry, KF4RMA@arrl.net, phone (724) 586-1182.

W3AA Special Event Station

The Phil-Mont Mobile Radio Club will operate W3AA as a special event station for the entire month of March. Tucked away in The Franklin Institute Science Museum, Philadelphia, PA, on the fourth floor near the telescope, W3AA was originally licensed as W3TKQ on March 5, 1952, and began daily operation on April 5, 1952.

The station will operate on primary frequencies of 28.393, 21.350, 7.240 & 14.230 MHz SSTV. Certificates are available for a self-addressed, stamped 9"x12" envelope sent to:

Amateur Radio Station W3AA
The Franklin Institute Science Museum
Benjamin Franklin Parkway at 20th Street
Philadelphia, PA 19103-1194.

The station will be on the air daily during museum hours of 0900-1700 EST. For more information about W3AA & the anniversary party, visit the Web site, www.fi.edu/tfi/exhibits/w3aa.html. For more information about Phil-Mont, visit www.phil-mont.org. Or call 215-448-1139, or email the station at w3aa@fi.edu.

FYI Networks

For Your Information needs

FYI Networks, an Internet Service Provider in Pittsburgh and surrounding areas since 1995, is offering all members of WASH their Basic Internet account for only \$18/month. This includes one e-mail box, 3 MB of disk space, web page hosting, Telnet & FTP access, and in some areas Toll-Free 500 Area Code service. Call FYI toll-free at 1-877-FYI-4NET, or e-mail them at sales@fyi.net, for more details or to sign up. You must mention that you are a member of the Wireless Association of South Hills to get the discount rate.

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

DX News Briefs

The end of February had some major activity, some of which was wrapping up over the first weekend in March and during the ARRL DX Phone contest.

T19M had huge pileups on most bands and modes, but was a lot easier to work in their second week once the pileups had whittled down and the jammers moved on. They were originally scheduled to QRT on March 4th but may not run through the weekend. QSL to AKØA. **PWØT** was just as accessible and often was found transmitting on or near T19M (and one would QSY when this occurred); they plan to QRT on March 2nd. QSL to KU9C. **H4ØT** was very active on 20 and 15 late nights (0500 Z) in WPA and easy to work; QSL via DL7AFS. **H7DX** was available on almost every band, QSL via DL7CM. And **V51/SP6IXF** was also easily available; he and **V51/DL2SL** QSL via home calls. Not bad for the predicted 2nd peak of this sun spot cycle! — T19M, PWØT, N4GN, KU9C, H4ØT, H7DX, KF2TI, V51 / SP6IXF, OPDX, 425 DX, W3UR, and many more

Pile Up Behavior: "Over the last few months the behavior in the DX pileups has been atrocious. I would just like to remind everyone to please pay attention to the DX stations requests. He is ultimately responsible for how the pileup is run, however you the DXer have a part in all of this. If the DX station wants to work "Europe only" that is his prerogative. When the DX station says "Victor Papa" only Victor Papa should come back. If your call does not have Victor Papa in it then you should be listening. Those who can't hear the DX station should not be calling! When someone is transmitting on top of the DX station please do not jump on that frequency and be a policeman. That only adds to the confusion. They will eventually figure it out. No matter how hard it is to resist do not talk on the DX stations transmit frequency. They may ask "Who is the DX station" or "What is the QSL manager". Pay no attention to them. They will eventually go away. Don't blow it for another station by talking on top of the DX station. We've had a lot of rare locations on the air in the first two months and more are coming. I know most of you who read this are following the operator's instructions. My guess is the ones who are out of line are those who are uninformed!" — W3UR courtesy of The Daily DX **KH4 QRT?** The firm that ran Midway's infrastructure has shut down "everything" there, leaving only the US Fish & Wildlife Service. All access to the island in the future is now in doubt (no air transport, only boat service may be available.) Several announced Dxpeditons for Midway for this year have been cancelled. More info at <http://www.latimes.com/sports/columnists/la-00008092feb01.column?coll=la-headlines-sports-columnists> — K1TTT, G3SWH, AD1C, KF2HC



QSL Routes

3ZØPW via DL3KDC — 3ZØPW	TA2BK (SK) via TA2DS — LZ1NG
4L1DX via OZ1HPS — 4L8A	TT8JE via F6FNU — N5UR
4L8A via OZ1HPS — 4L8A	V26G via N2ED — V26G
5U1A via I2YSB — K4XG	V31AH via W2GR — W2GR
5U4R via I2YSB — K4XG	V63AO via JH8BKL — JA1ELY
8P9NX via WØSA — VE3NRB	V73UG via W7UG — W8KNH
CO8LY via EA7ADH — DL1SBF	VP5GA via N2GA — N2GA
J79UGF via KK4WW — DL1SBF	YN1KD/8 via TI5KD — W4NW, AB5A
JY9NX via JH7FQK — EA5BY	YU8/9XØA via UA3DX — RV3EC
KG4DX via W4WX — W4WX	ZA1E via I2MQP (Mail Drop Only) — I2MQP
KH2/K8YU via JH8KYU — JF2IGP	Z24S via W3HNK — ON4AAM
NH4/NH6YK via F6FNU — N5UR	ZP6M via PY5XX — G3SWH
SØ7X via DJ6SI — AL7LZ, IK4FNF	ZX1JP via PY1OL — PY1OL
T48RAC via VE3ESE — VE3NQQ	

Thanks to the NJDXA DX News & DX Chat Reflectors, 425 DX News, OPDX News, & ARRL DX Bulletins for our DX News information. Thanks also to Bernie McClenny W3UR/The Daily DX for confirmations & additional information.

FCC News

ARRL Web Extra courtesy American Radio Relay League

NEWINGTON, CT, February 26th, 2002 — The FCC has wrapped up an investigation into apparent irregularities at five ARRL VEC-sponsored Amateur Radio examination sessions in Georgia during 2000 and 2001.

As a result of the probe, FCC Special Counsel Riley Hollingsworth said that several examinees would be called back for Element 1 (Morse code) retesting. In addition, the ARRL VEC has discontinued volunteer examiner accreditation for all but two of the VEs involved. According to standard procedure, all VEs who might have been involved were suspended after the FCC investigation began last year.



"We have reviewed the examination documents and all relevant information, including that provided by the volunteer examiners and applicants," Hollingsworth said in a February 12th letter to ARRL VEC Manager Bart Jahnke, W9JJ. Jahnke called the apparent irregularities to the FCC's attention last June. The issues involved both exam sessions and instructional classes.

Initially focusing on the May 19th, 2001, examination session in Statesboro, the FCC audit was expanded to cover the activities of the same group of VEs at Georgia test sessions in Claxton on February 19th and April 15th, 2000, and in Statesboro on May 27, 2000, and February 17th, 2001.

In a letter last summer to ARRL VEC, Hollingsworth said test session documents and other information indicated "alarming discrepancies in testing procedures." He said information before the FCC suggested that volunteer examiners at the May 19th Statesboro session used identical exam question sets and Morse text at several recent exam sessions in apparent contradiction of Amateur Service rules that prohibit administration of a "compromised examination." Hollingsworth also said it appeared that test candidates "had been shown or had access to" the Morse code answer key and that some VEs had taught classes using the same test editions later given at actual examination sessions.

Hollingsworth said that as a result of the FCC probe, 8 examinees who obtained licenses as a result of the tests would be called in for Element 1 (Morse code) re-examination, if they have not already re-tested.

"We have notified those licensees that another examination is necessary," Hollingsworth said. The test documents of one candidate at the May 19th Statesboro session were held by the ARRL, which has notified the applicant that the Element 1 Morse code test must be retaken before the application can be submitted to the FCC.

The ARRL VEC has withdrawn accreditation for volunteer examiners responsible for the testing sessions at which alleged irregularities occurred as well as those of VEs present at a February 10th, 2001, instructional class. The examiners are Ellie Waters, W4CJB; Cheryl L. Waters, W4CLW; Joanne D. Sharpe, KF4WFN; John W. Sharpe, WA4BE; Joseph A. Horne, N4ZAJ; George B. Grant, KF4WPU; Robert T. Jernigan, W4RTJ; Kathy L. Lanier, KD4MVY; Charles M. Aulick, KF4MLT; and Lawrence A. Lewis, K4RRR.

The ARRL VEC reinstated two VEs suspended during the audit — Charles F. Roberts, AI4A, and Marshall R. Thigpen Jr, W4IS.

Meanwhile, the FCC has yet to complete an audit of an ARRL VEC-sponsored examination session in Trumbull, Connecticut, last May. Eleven VEs remain suspended in that probe. That probe is focusing on discrepancies in documents submitted on behalf of one applicant who attempted to upgrade from Technician to Extra. The FCC is looking into whether the applicant had access to the Morse code answer key or submitted an answer sheet completed prior to the examination.



WASH Classifieds

Information shown here is as supplied to the **WASHRag**. Condition as stated, and all sales should be considered "as-is" unless otherwise noted. All subject to prior sale or withdrawal from sale at the owner's discretion. All responsibility for this information lies with the source and not the **WASHRag** or the **WIRELESS ASSOCIATION OF SOUTH HILLS**.

Wanted: Manual for an MFJ Versa-Tuner Model 941B. Paul Lusardi NØVLR n0v1r@fyi.net or call 412-688-2318 (w) 724-229-3973 (h)

For Sale: Ten Tec Triton IV Model 540 (Analog Display) 100W 80-10 M (No WARC) HF Solid-State Transceiver, with Noise Blanker, Mike, power cable and a copy of the manual. Serial Number T1092. With matching Model 252G power supply. Stable, solid, rig. No memories or anything fancy. Complete package \$300 / obo. Ron WN3VAW 412-882-7130 wn3vaw@fyi.net

For Sale: The following items are from the estate of WB3FYP:

- (2) Kenwood TS50 HF 100 watt Mobile \$500
- (2) Kenwood AT50 Antenna tuner \$250
- (2) Kenwood TM-V7 Dual band 2 meter 440 MHz 50 watt mobile \$350
- (1) Kenwood TM-731 Dual band 50 watt mobile low audio one channel \$175
- (1) Cushcraft R7 10 thru 40 meter vertical base antenna \$175
- (1) Pyramid PS 26K Variable Voltage 25 amp Power supply \$65
- (1) Maldol EX-11 Dual band Mobile antenna trunk mount \$75
- (1) Larsen NMO 2/70 Dual band mobile mag-mount antenna \$75
- (2) Vanco Big mouth Speaker 2.5 X 3.5 \$5
- (2) Daiwa CN-410 3.5 - 150 MHz SWR bridge 15 - 150 watt \$65
- (2) Motorola TU 324 A Speaker 5" X 5" speaker \$10
- (2) MFJ MFJ - 1702B 2 position 600 MHz coax switch \$10

Bethel Park Council Gives Conditions for Cell Tower

Mary Niderberger, Pittsburgh Post-Gazette
Reprinted from the PG South Edition, 27 February 2002, Page S-7

Bethel Park Council has placed five conditions on construction of a cell phone tower proposed by Sprint PCS on the property of Kiefer Coal and Supply Co.

Monday's action came after a public hearing.

Council members said they believed the photo of a tower shown at the hearing differed from the drawings the firm submitted to the planning commission. Residents of Bethel Crest, Mesta and Tischler Drives complained that the tower would be unsightly and might produce harmful radiation. Some also worried that its construction would aggravate existing water runoff problems in the area. Cell phone towers are permitted only in industrial areas as a conditional use.

Council imposed these conditions:

- No part of the tower, including antennas, to be higher than 60 feet.
- Any other carrier wishing to use the tower must go through the entire approval process starting with the planning commission.
- Spring must provide a storm-water management report
- Only one tower on the site.
- The antenna can have only two sides — which outlaws the proposed triangular shape.

Council said that if it receives all information requested from Spring in time, the item will be placed on the agenda for its March 11th meeting.

WACOM ARC Hamfest

Sunday, April 28th, 2002

Please Note New Date!

8 AM until 3 PM Rain or Shine
Washington County Fairgrounds
Washington, PA
Talk-In on 146.790(-)

Two Rivers ARC 30th Annual Hamfest & Computer Show

Sunday, March 17th, 2002

8:30 AM until 3 PM

Palace Inn, Route 48 @ US 22, Monroeville, PA
VE Exams To Be Offered!

Butler County Tech Fest & Butler Co ARA 50th Anniversary Celebration

48th Annual

Breezeshooter's Hamfest

Sunday, June 2nd, 8 AM until 3 PM

Butler Farm Show Grounds, Butler PA

Fly-In Available at Roe Airport

Talk-in on W3UDX/R 147.360 (+)

VE Session courtesy Ellwood City ARA VE Team

Maps and More Information Available at

www.breezeshooters.net



WIRELESS ASSOCIATION OF SOUTH HILLS, INC.

Membership Application/Renewal for 2002



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**

<input type="checkbox"/> (F1) Full Membership:	\$20.00	\$15.00	\$10.00	\$5.00
<input type="checkbox"/> (F2) Full Membership < 18 or > 65 yrs of age:	\$10.00	\$7.50	\$5.00	\$2.50
<input type="checkbox"/> (A1) Associate Membership:	\$10.00	\$7.50	\$5.00	\$2.50

(FM1) Family Membership (F1 or F2 or A1 dues x 20% x No. of household family members): \$ _____

Name(s): _____

Name: _____

Address: _____

City, State: _____

Home Phone: _____

Email Address: _____

Call Sign: _____

License Class: _____

Expires On: _____

Work Phone: _____

BirthDay: _____

New Members Only:

- I do NOT want to be added to the Club E-Mail Reflector
 - I do NOT want to be added to the Electronic Newsletter Mailing List
- [If you have an Email address, you Will be added to both lists UNLESS you choose to Opt-Out]

ARRL Member? Yes No Family ARRL Member? Yes No

Date: _____

Signature: _____

Amount Enclosed: \$ _____

Please make your check or money order payable to the club treasurer, Mark Stabryla.
The Wireless Association of South Hills, Inc. reserves the right to accept or reject new memberships or renewals.
Please return completed membership form along with check/money order to the club treasurer or mail to:

Wireless Association of South Hills, Inc.
C/O Mark Stabryla N3RDV, VP/Treasurer
1120 McKnight Drive
Bethel Park, PA 15102-2456

Wireless Association of South Hills, Inc.

Order Form for "The TLC Embroidery Company"

Embroidered Shirts and Hats

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

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

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

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

Use additional sheet(s) if necessary

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

Phone: 724 - 484 - 7703



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

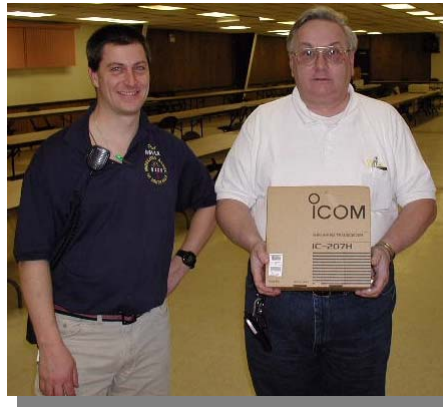


**March Meeting:
Annual WASH Pizza
Night**

Inside This Issue:

- A page full of **WASHFest 2002** pictures
- Final results, **WASH 2M FM Simplex Contest**
- The **Pittsburgh Marathon Needs You!**
- A short course in how amateur tickets have changed over the years...
- **W3 AA Special Event Station**
- **What's a TechFest?**
- **Bethel Park Council votes on Cell Towers**

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



WASHFEST WINNERS!

Carol KB3GMN and Jacqué N3ZEL, and Bill N3BPB with WASH President Paul NØVLR (above) , display the prizes they won last Sunday at WASHFest 2002.

(Yes, Jacqué consented to publication of the picture!)

