



# WASHRAG<sup>TM</sup>



VOLUME 18 ISSUE 03.5  
MARCH 2016 #2

Wireless Association of South Hills

WASHFest 2016 Special Edition!

N3SH WA3SH NP2SH/B [www.n3sh.org](http://www.n3sh.org) [www.washarc.org](http://www.washarc.org)





## WASHRAG™



VOLUME 18 ISSUE 3.5

MARCH 2016 #2

### Next Monthly Meeting: Thursday, April 7<sup>th</sup>, 2016

The next meeting of the **WIRELESS ASSOCIATION OF SOUTH HILLS, INC.** will be on **Thursday, April 7<sup>th</sup> 2016**, in the Conference Room at the **St. Clair Hospital Outpatient Center, 2000 Oxford Drive, Bethel Park, by South Hills Village & Village Square** (map on the back page). The room is available at 6:30 PM. The meeting will be starting at 7:00 PM.

Meeting topics will include the ongoing kit project, Field Day plans, Dayton Hamfention, Repeater updates, other club plans for 2016, and more. See you there!

Cover Photos: Scenes from **WASHFest 2016**. Well, that is kinda the point of this "extra" edition, isn't it?

Photos courtesy of & © Copyright 2016 Ron Notarius W3WN

## WASH 2016 OFFICERS

### EXECUTIVE COMMITTEE:

President	Carol Danko KB3GMN
VP / Secretary	Ben Williams KB3ERQ
VP / Treasurer	Mark Stabryla N3RDV

### AND WE COULDN'T DO IT WITHOUT:

N3SH Trustee	Larry Comden K3VX
WA3SH Trustee	Rich Danko N3SBF
NP2SH Trustee	Paul Jordan NP2JF
N3SH WA3SH NP2SH/B QSL Manager	Ron Notarius W3WN
NP2SH 2009 QSL Manager	Carl Schroeder K9CS
VE Team Liaison	Ron Notarius W3WN
Webmaster	Sean Sleeman N3NWR
Asst. Webmaster	Ben Williams KB3ERQ
Quartermaster	Harold Rosenberger K3HCR
WASH FM Net Manager	Glen Roberts KE7FD
WASHFest 2016 Committee	Carol Danko KB3GMN, Chairman
	Bill Hill W3WH, Co-Chair
Activities & Operating Events	Rick Bell KB3IAC
Ways & Means	Carol Danko KB3GMN
WASH 2M Contest Chair	Jim Sanford WB4GCS
Field Day 2016 Coordinators	Rick Bell KB3IAC

### CLUB-AFFILIATED REPEATERS, BEACONS, & DIGIPEATERS:

Mt. Lebanon	N3SH / R	146.955 MHz (-)	PL 131.8
North Side	N3SH / R	442.550 MHz (+)	PL 131.8
Canonsburg	N3FB / R	443.650 MHz (+)	PL 131.8
St. Johns, VI	NP2SH / B	28.276 MHz	Propagation Beacon
Canonsburg	N3SH	144.390 MHz	APRS Digipeater

**N3SH / WA3SH WASHNet, the weekly on-air net of WASH**, meets every **Monday** Night, 8:00 PM ET, on the 146.955 & 443.650 repeaters. All radio amateurs, WASH members or not, are welcome to join in!

## THE LEGAL STUFF

**"The WASHRag™"** (formerly **"The Mariner™"**) is the Official Newsletter of the **WIRELESS ASSOCIATION OF SOUTH HILLS, INC. (WASH)**

Published Monthly with occasional Special Editions as warranted.

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Editor & Publisher: Ron Notarius W3WN

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The **WIRELESS ASSOCIATION OF SOUTH HILLS, INC.** was founded on August 23<sup>rd</sup>, 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 & operators of both the N3SH/R Repeaters and the N3FB/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 14<sup>th</sup>

The Next WASH VE exam sessions will be **Thursday**, April 14<sup>th</sup>, 2016, 7:00 PM, at the **WPXI Community Room**, 4145 Evergreen Road, Pittsburgh, PA 15214. Talk-in on the 146.955 MHz and 443.650 MHz repeaters. All examiners are ARRL VEC affiliated.

**Pre-registration is required. Walk-ins will NOT be accepted** due to limited available space. If you plan on attending the test session, please contact VE Team Liason Ron Notarius W3WN:

Telephone (412) 572-6723 or E-Mail: [w3wn@n3sh.org](mailto:w3wn@n3sh.org)

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 \$15.00 (payable to: ARRL VEC)

Future test dates (tentative): July 21<sup>st</sup>, 2016  
October 20<sup>th</sup>, 2016

We usually start off every newsletter with a recap of the latest escapades of the **WASH Breakfast Gang**, but since the March newsletter came out early, and the April newsletter will come out after the March gathering... so anyway, once again we gathered at **Suzie B's**, Route 910 at the intersection of Route 519 at US 19 in Canonsburg. This go around included WB4GCS, KB3YCX, N3IDH, N3BPB & friend (sorry Bill, we missed her name!), KB3JHR and W3WN. Topics of the morning included grandsons coming home for 2 weeks leave prior to deployment or next assignment, running 60 Amp service to the tower, today's sermon, Windows 7 vs. Windows X, using a Raspberry Pi for browsing and email, busting Verizon Wireless, dating a basketball player, getting one's own invitation to the wedding, living on the edge of the snow belt, taking Windows X off of a machine, replacing phones, having a 2 meter AM transmitter as a kid, LED lighting, the demise of the Tribune-Review home newspaper delivery service, what happened to the Observer-Reporter, general thoughts for the next day's **WASHFest**, and more.

Sounds like a good time? Come and find out at our next get-together! Our next gathering for 2016 will be on Saturday, March 26<sup>th</sup>, as usual at **Suzie B's**, Route 910 at the intersection of Route 519 at 19, Canonsburg. Our "usual" tables will be reserved, but **please** let Jim WB4GCS know ahead of time, so that Suzie & her crew will have enough space available for us. (We really don't want to fight the State Police for seats... we'd lose!) See you there?

The ARRL UHF Contest scheduled for this August has been cancelled.

Following input from testers, the Contest Advisory Committee decided that this year's event should be cancelled while changes, including rescheduling it to another time of the year, are being considered.



Since this is an "extra" issue of the newsletter this month, we don't have all of the usual features. What we do have, besides some news tidbits, are pictures from **WASHFest 2016**, starting right here. Read, view and enjoy!



### Monthly WASH Breakfast

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



Join us this month at **Suzie B's**, Route 910 at the intersection of Route 519 at US 19, 1 mile North of Downtown Canonsburg. Start time is about 8 AM until ????. Monitor 146.955 & 443.650 for talk-in or any last minute changes.

All are welcome, **WASH** members or not, amateurs or not!

### WASHNet NCS Schedule

03/28/2016	Carol KB3GMN	05/09/2016	Harold K3HCR
03/28/2016	Swap Net	05/16/2016	Digital Net
04/04/2016	Chuck KC3ELA	05/23/2016	Larry K3VX
04/11/2016	Dave N3DFK	05/23/2016	Swap Net
04/18/2016	Digital Net	05/30/2016	Mike WA3PYU
04/25/2016	Fred KB3DCO	06/06/2016	Rick KB3IAC
04/25/2016	Swap Net	06/13/2016	Bill W3WH
05/02/2016	Glen KE7FD	06/20/2016	Digital Net

**Join WASH or Renew your Membership Today! Membership Application on Page 13**



# 2016 WASH Upcoming Events Calendar

*Club Meetings & Other Significant Events — Subject to Change*

March 26 <sup>th</sup> — 27 <sup>th</sup>	CQ WPX Contest SSB	<a href="http://www.cqwpw.com/">http://www.cqwpw.com/</a>
April 7 <sup>th</sup>	WASH Meeting	St. Clair Hospital Outpatient Center, 2000 Oxford Drive, Bethel Park
April 14 <sup>th</sup>	WASH VEC Exam	WPXI Community Room, 4145 Evergreen Road, Pittsburgh PA
April 24 <sup>th</sup>	Two Rivers ARC Hamfest	<a href="http://www.trarc.net/home">http://www.trarc.net/home</a>
May 5 <sup>th</sup>	WASH Meeting	St. Clair Hospital Outpatient Center, 2000 Oxford Drive, Bethel Park
May 20 <sup>th</sup> — 22 <sup>nd</sup>	Dayton Hamvention 2016	<a href="http://hamvention.org/">http://hamvention.org/</a>
June 2 <sup>nd</sup>	WASH Meeting	St. Clair Hospital Outpatient Center, 2000 Oxford Drive, Bethel Park
June 5 <sup>th</sup>	Breezeshooter's Hamfest	Big Butler Fairgrounds, 1127 New Castle Road (US 422), Prospect PA 16052
	WASH Picnic @ Breezeshooter's	
June 25 <sup>th</sup> — 26 <sup>th</sup>	ARRL Field Day	<a href="http://www.arrl.org">http://www.arrl.org</a>
July 1 <sup>st</sup>	WASH Meeting	St. Clair Hospital Outpatient Center, 2000 Oxford Drive, Bethel Park
July 16 <sup>th</sup>	North Hills ARC Hamfest	<a href="http://www.nharc.org">http://www.nharc.org</a>
July 17 <sup>th</sup>	Somerset County ARC Hamfest	<a href="http://www.k3smt.org">http://www.k3smt.org</a>
July 21 <sup>st</sup>	WASH VEC Exam	WPXI Community Room, 4145 Evergreen Road, Pittsburgh PA
August 4 <sup>th</sup>	WASH Meeting	St. Clair Hospital Outpatient Center, 2000 Oxford Drive, Bethel Park
August 28 <sup>th</sup>	Skyview RS Hamfest	<a href="http://www.skyviewradio.net">http://www.skyviewradio.net</a>
September 1 <sup>st</sup>	WASH Meeting	St. Clair Hospital Outpatient Center, 2000 Oxford Drive, Bethel Park
September 3 <sup>rd</sup>	Uniontown ARC Gabfest	<a href="http://www.w3pie.org">http://www.w3pie.org</a>
October 1 <sup>st</sup> — 2 <sup>nd</sup>	51 <sup>st</sup> California QSO Party	<a href="http://www.cqp.org/">http://www.cqp.org/</a>
October 6 <sup>th</sup>	WASH Meeting	St. Clair Hospital Outpatient Center, 2000 Oxford Drive, Bethel Park
October 8 <sup>th</sup> — 9 <sup>th</sup>	59 <sup>th</sup> Pennsylvania QSO Party	<a href="http://www.nittany-arc.net/PAQSO.html">http://www.nittany-arc.net/PAQSO.html</a>
October 20 <sup>th</sup>	WASH VEC Exam	WPXI Community Room, 4145 Evergreen Road, Pittsburgh PA

## *Scenes from a Hamfest*

Photos this page courtesy of and © Copyright 2016 Bob Timmons AB3ED



Below: Our thanks as always to WPA Section Manager Tim Duffy K3LR (left), and ARRL Atlantic Division Director Tom Abernathy W3TOM (right) for taking time out of their busy schedules to attend **WASHFest 2016**. [ And they even got hugs from **WASH** President Carol Danko KB3GMN, too! ]





# *A Look Around, Later in the Morning*

Photos Courtesy of and © Copyright 2016 Frank Bobro N3FB



## *Two More...*

Photos below courtesy of and © Copyright 2016 Bob Timmons AB3ED



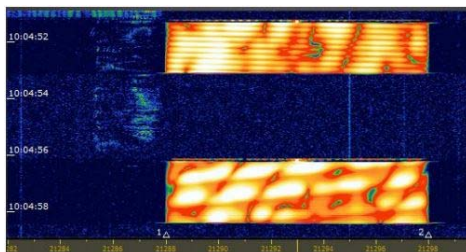


## Over The Horizon Radars Becoming Routine Visitors on Amateur HF Bands

IARU Region 1 Monitoring System, Courtesy of the American Radio Relay League

The International Amateur Radio Union Region 1 (Europe/Africa) Monitoring System ([IARUMS](#)) reports a spate of over the horizon (OTH) radar signals on various Amateur Radio HF bands — exclusive and shared. Many of these signals are being heard outside of the Region 1 confines.

A 50 kHz wide Russian OTH radar has been heard in the evening on 80 meters, often in the CW part of the band. An "often long-lasting" Russian OTH signal about 13 kHz wide is being heard on the 7000-7100 kHz segment of 40 meters, while some digital traffic (FSK or PSK), and a "Codar-like radar from the Far East" are being heard in the 7000-7200 kHz segment as well as non-amateur CW transmissions.



The Australian OTH radar "JORN" (FM CW burst mode) on 21.293 MHz with different sweep rates. Screen shot by Wolf Hadel DK2OM.

The same OTH radar being heard on 40 meters also is appearing on 20 meters, along with digital traffic in FSK or PSK and on CW and broadband OTH radar signals from China. Some monitoring reports are intriguing, such as this one on 14.280 MHz from IARU Region 1 Monitoring System Coordinator Wolf Hadel, DK2OM: "Female voice with encrypted msgs — figures — 'SZRU' = Foreign Intelligence Service of Ukraine in Rivne — every Wednesday at 1005 UTC."

Broadband OTH radars from China, Australia, Cyprus, and Turkey have been monitored in 15 meters. On 10 meters, radars from Iran with FM CW and different sweep rates have been monitored, as well as fishery buoys on CW, and taxi operations on voice from Russia.

Voice traffic from fishing operations has been heard on all or most HF bands, as well as a variety of broadcasters, including the third harmonic of Radio Tajik (4765 kHz) on 14.295 MHz, Radio Taiwan and Myanmar Radio, both on 7.200 MHz, and Radio Hargaysa in Somalia on 7.120 MHz.

The February 2016 IARU Region 1 Monitoring System [newsletter](#) offers more details. There is an online [archive](#) of past issues



## Former QSL Manager Mary Ann Crider WA3HUP (SK)

Glenn Kurzenknabe K3SWZ, Kay Craigie N3KNm and Bernie McClenny W3UR/The Daily DX Courtesy of the American Radio Relay League

Well-known QSL manager for DX stations and a former manager of the Third Call Area QSL Bureau Mary Ann Crider WA3HUP, of Duncannon, Pennsylvania, died on March 12<sup>th</sup> after a period of failing health. An ARRL member, she was 91. DX chasers during the 1970s, 1980s, and 1990s likely received QSL cards from DX stations for which she handled QSLing chores.

In 2005, the ARRL Executive Committee voted unanimously to name Crider the recipient of ARRL President's Award for her contributions to the cause of international goodwill through her long service as a QSL manager and as manager of the ARRL Third Call Area Incoming QSL Bureau. When she stepped down, the National Capitol DX Association (NCDXA) took over the bureau, with noted DXer Fred Laun, K3ZO, at the helm. At the time, Laun cited Crider's "encyclopedic knowledge of DXCC entities and call sign prefixes...built by her work in the trenches, as illustrated by her DXCC confirmed total of 360 entities."

Before she became the bureau's manager, Crider served as a sorter for 11 years. Among the DX operators she served as QSL manager was King Hussein of Jordan, JY1, and she made several trips to Jordan to visit him.

Crider was licensed as a Novice in 1967. Her late husband was W3GE (ex-W3HTO).

A service is set for Saturday, March 19<sup>th</sup>



## Fox-1C and Fox-1D Satellites Ready for Payload Integration

AMSAT News Service Courtesy of the American Radio Relay League

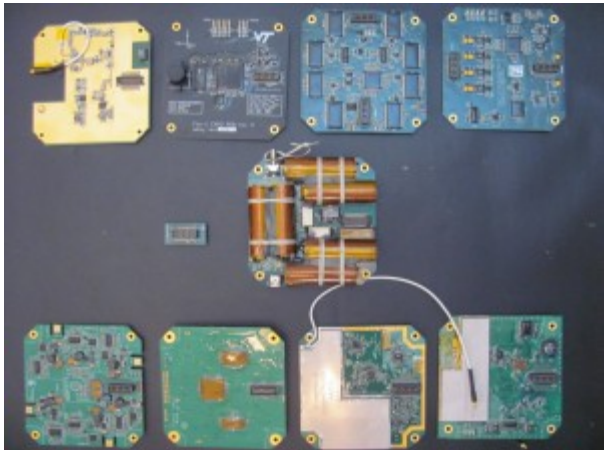
[AMSAT](#) reports that its Fox-1C (Fox-1Cliff — renamed in honor of the late AMSAT pioneer and benefactor Cliff Buttschardt K7RR, who turned Cal Poly into Cubesat central and caused the explosion of cubesats onto the worlds ) and Fox-1D satellites are ready for delivery to Spaceflight Industries for integration into the Sherpa payload dispenser which will be making its maiden flight. Fox-1Cliff and Fox-1D successfully finished environmental testing on February 8. Launch is set for later this year on a SpaceX Falcon 9.

Until delivery, the CubeSats will be sealed in anti-static bags, opened occasionally to charge the batteries so they will be fully topped off for delivery. Launched into sun synchronous orbits,

Fox-1Cliff and Fox-1D will carry the same FM repeater as Fox-1A (AO-85), in addition to a Virginia Tech camera experiment that will take images of Earth for high-speed downlink. Fox-1Cliff will also contain a radiation experiment from Vanderbilt University ISDE, like the one in AO-85, and Fox-1D will host the University of Iowa High-Energy Radiation CubeSat Instrument experiment to map the Van Allen radiation belts.

Left: The boards of Fox-1Cliff  
Photo courtesy of and  
© Copyright 2016 AMSAT

The Fox Engineering Team now has shifted its focus to RadFxCat/Fox-1B, currently set to launch in January 2017.





## *A View From the Aisles*

Photos courtesy of and © Copyright 2016 Bob Mente NU3Q



## *The "Last Man Standing" Amateur Radio Club KA6LMS is a Class Act*

Robert L. Moses Jr. AC5RM courtesy of QRZ.COM

A few weeks ago, I saw on facebook that the TV show "Last Man Standing" had activated its own club and were on the air. I was lucky enough to work them literally moments after they began.

My nine year old daughter was beside herself to hear this and to hear the station, since she- and I, I must admit- are huge fans of the show. I was the coolest Dad on the planet when I talked to them.

I wrote out a card to send so I could get a card back, mainly to give to her. But I was out of stamps, so I left the opened card lying on the desk.

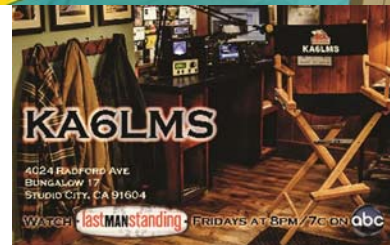
The next day, armed with stamps, I set out to send it in, only to find that my little rat had snuck a note to "Mike Baxter", asking about her favorite character, Eve, and whether she had a license. I left the note in the envelope and sent it.

Today, Chey got the mail and saw we had a card. When I opened it and discovered it was from the show she instantly got interested.

Then we saw the two additional cards they sent- one of "Mike Baxter"s cards with a personal note to her signed "Mike" AND Mandy's "KFØXIE" card for her personal collection! That little girl was so excited she cried and danced around. It truly made her day, and now she's determined to get HER license too, so she "might get to talk to Eve."

I just wanted to publically say thanks to the club if any members happen to read this. You made a little fan VERY happy, and excited about ham radio, so by extension, you made one fat old Daddy very happy!

*(Editor's note: Would you believe that some hams have actually applied for the KAØXTT and KFØXFE calls under the vanity program? 2x3 calls with an "X" as the first letter of the suffix are "Group X" calls assigned to the Experimental Service and are not available to the Amateur Radio Service.)*





# WASHFest 2016: Setup

Photos courtesy of and © Copyright 2016 Ron Notarius W3WN

Memorial Hall Table Setup 6:19 AM



Sauder Electronics Setting Up



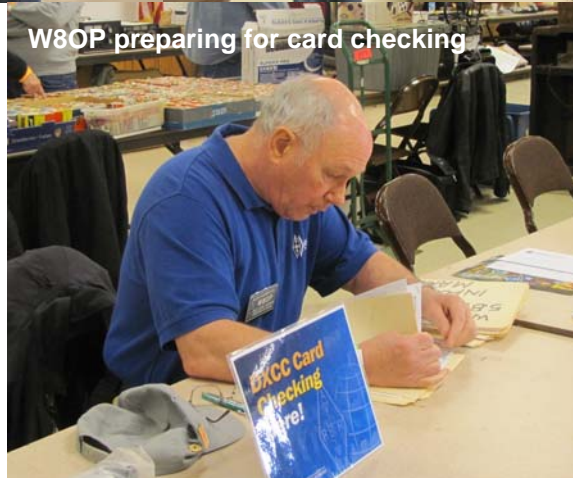
K3VX & WE3U chatting



KB3GMN & KE7FD Prepping the Club/Prize Table



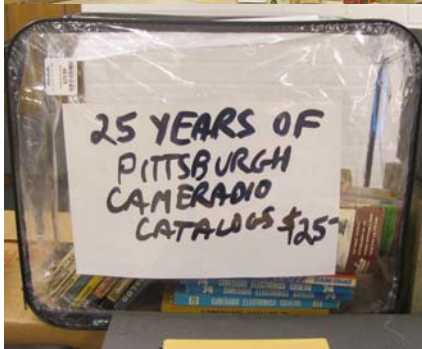
W8OP preparing for card checking



Vendors Getting Ready



25 YEARS OF  
PITTSBURGH  
CAMERADIO  
CATALOGS \$25



It's too early to pose for a photo





# Out & About at WASHFest 2016

Photos courtesy of and © Copyright 2016 Ron Notarius W3WN



8 AM: Doors are Open — Here They Come!

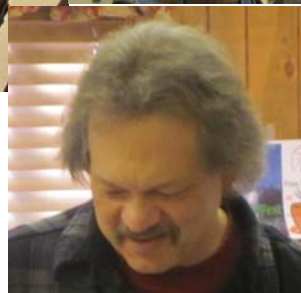
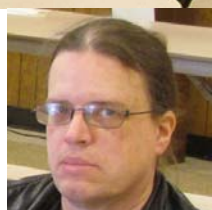


K3VX & WPA SM K3LR



Division Director W3TOM

Breakfast and Prize Tickets



Lunch and Conversation



KB3IAC and KB3IVX in the kitchen



## VE Exam Results

This year, we had 11 candidates pre-register for ARRL VEC Amateur Radio Exams prior to **WASHFest 2016**. 9 actually arrived and sat for new or upgrades; 8 passed their exams for new or upgraded licenses.

Congratulations to: Charles Bihon KC3ELA, Upgrade to General  
Chris Wilson KC3GIQ, Upgrade to General  
Justin Maier KD2KOL, New Technician  
Charles Brockhoff KC3GRH, New Technician  
Michael Salvitti KC3GRI, New Technician  
Keegan McCormick KC3GRJ, New Technician  
Warren Leung KC3GRK, New Technician  
Matai Zhonnate KC3GRL, New Technician

Our thanks to all of the VE's who took time out of the hamfest to assist the VE session:

Glen Roberts KE7FD, Dave DeMotte N3IDH, Gene Kern KB3JHR, Ken Frackenberry AA3GM, and Ed Oelschlager N3ZNI. Also thanks to Bob Mente NU3Q, who was available but needed, and Jin Sanford WB4GCS, who was present but not available due to a potential conflict of interest.

And our apologies for the less than ideal conditions, as the back "store room" was the only space available. Hopefully this condition will change at future hamfests!

73, Ron Notarius W3WN, VE Team Liason

Photos courtesy of & © Copyright 2016 Ron Notarius W3WN

## Main Prize Winners

1 <sup>st</sup> Prize:	Yaesu FT-991	Rick Pierce N2QPQ
2 <sup>nd</sup> Prize:	Yaesu FT-2900R	Rick Bell KB3IAC
3 <sup>rd</sup> Prize:	Clear Speech Speaker	Mike Ackerman WZ8F
4 <sup>th</sup> Prize:	440 MHz Beam	George Syner WA3OGQ
1 <sup>st</sup> Black Box	Bruce Bailey KC3GIR	
2 <sup>nd</sup> Black Box	Cathy Freehling KB3OYS	
50/50	Richard Lococo W3DVE	



First Prize being presented



Carol KB3GMN announcing the main prize winners



Second Prize being presented



Ah, not exactly a laurel & a hearty handshake...





## Two Rivers ARC 45<sup>th</sup> Annual Hamfest

Sunday, April 24<sup>th</sup>, 2016, 8:00 AM—2:00 PM

The Spectrum

6001 Smithfield Street, Boston, PA 15135 (Off PA Route 48)

Talk-in on 146.73 Mobile Check-In 146.52

Admission \$5

More Information at <http://www.trarc.net>

## 62<sup>nd</sup> Annual Breezeshooters Hamfest ARRL Western PA Section Convention

Sunday, June 5<sup>th</sup>, 2015, 8:00 AM—3:00 PM

New Location!

Big Butler Fairgrounds

1127 New Castle Road (US 422),

Prospect PA 16052

Admission \$5

More Information at <http://www.breezeshooters.org>



## Skyview Radio Society Swap'n'Shop

Sunday, August 28<sup>th</sup>, 2016, 8:00 AM—1:00 PM

Grounds Open at 6 AM for Vendors & Tailgaters

Skyview Radio Society Clubhouse

2335 Turkey Ridge Road, New Kensington, PA

Talk-in on 146.640 PL 131.8



## Uniontown ARC GabFest 67<sup>th</sup> Annual Hamfest

Saturday, September 3<sup>rd</sup>, 2016, 8:00 AM—1:00 PM

Setup Time at 6 AM for Vendors & Tailgaters

W3PIE Clubhouse, 433 Old Pittsburgh Road just off Route 51  
& US 119, Uniontown

Talk-in on 147.045 PL 131.8

Free Admission — Free Parking — Free Swap-N-Shop Setup With Registration

More Information at [www.w3pie.org/gabfest.htm](http://www.w3pie.org/gabfest.htm)





# WIRELESS ASSOCIATION OF SOUTH HILLS, INC.

## Membership Application, New or Renewal



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**  
**Jan-Mar**

☐ **2nd Qtr**  
**Apr-Jun**

☐ **3rd Qtr**  
**Jul-Sept**

☐ **4th Qtr**  
**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 (\$3.00 x No. of household family members): \$ \_\_\_\_\_

Name(s): \_\_\_\_\_

Name: \_\_\_\_\_

Address: \_\_\_\_\_

City, State: \_\_\_\_\_

Home Phone: \_\_\_\_\_

Email Address: \_\_\_\_\_

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]

Signature: \_\_\_\_\_

Call Sign: \_\_\_\_\_

License Class: \_\_\_\_\_

Expires On: \_\_\_\_\_

Work Phone: \_\_\_\_\_

Birthday: \_\_\_\_\_

ARRL Member? ☐ Yes ☐ No Family ARRL Member? ☐ Yes ☐ No

Date: \_\_\_\_\_

Amount Enclosed: \$ \_\_\_\_\_

**N3RDV has requested that all membership requests and renewals include an application so that his information is up to date**

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



## Join the American Radio Relay League or Renew Your Membership through the WIRELESS ASSOCIATION OF SOUTH HILLS, INC.

Members of the [WIRELESS ASSOCIATION OF SOUTH HILLS](#) can start a new membership or renew an existing membership in the American Radio Relay League, the National Organization of Radio Amateurs, through the club.  
Benefits for you: Joining and participating in everything the League has to offer, including a QST subscription.  
Benefits for the club: A few more shekels for our coffers.

Just fill out the form below, include a check or money order made out to WASH/ARRL, and return all 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

Name: \_\_\_\_\_

Address: \_\_\_\_\_

City, State, ZIP: \_\_\_\_\_

Please Check the Appropriate One-Year Rate:

- ☐ \$49 in US
- ☐ Age 21 or younger, \$20 in US (only if you are the oldest licensed amateur in your household)
- ☐ Canada \$49
- ☐ Elsewhere \$62
- ☐ Other (including Blind, Life, QST by First Class Postage — please contact ARRL for rate)

Dues subject to change without notice

Call Sign: \_\_\_\_\_

Date of Birth: \_\_\_\_\_

Total Enclosed: \$ \_\_\_\_\_

☐ Additional Family Members at the same address (\$8 per family member)

Name & Call Sign: \_\_\_\_\_

Name & Call Sign: \_\_\_\_\_

Name & Call Sign: \_\_\_\_\_





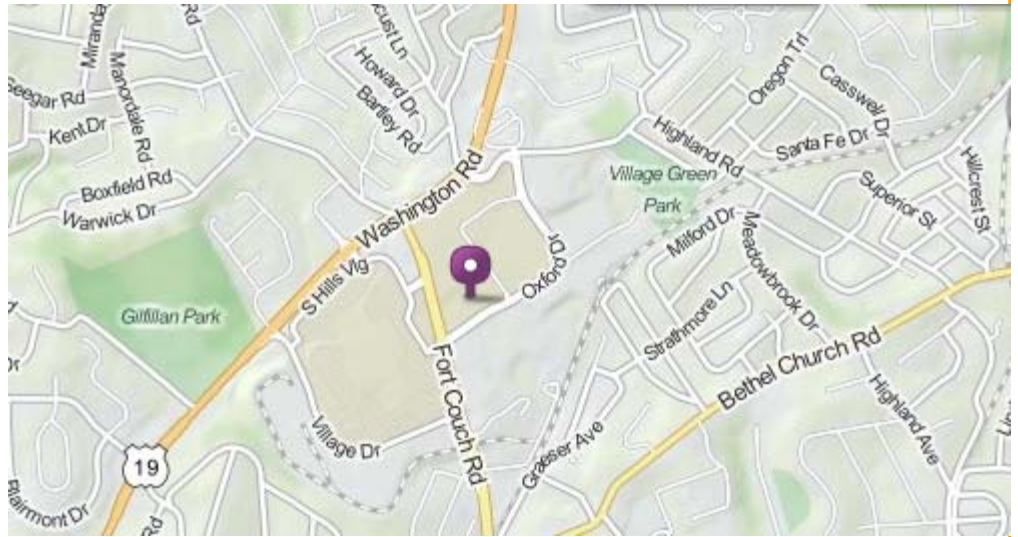
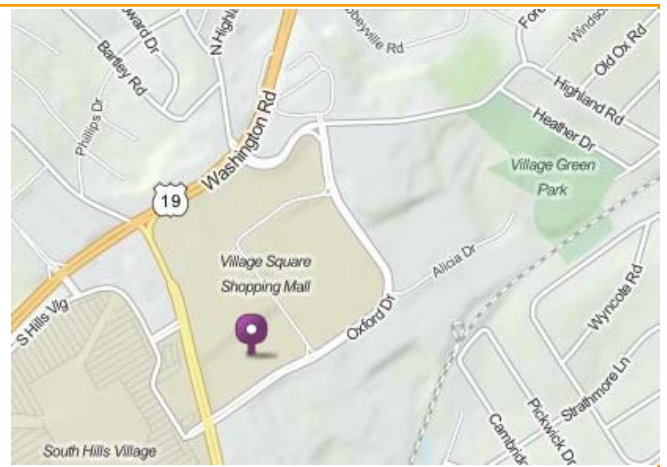
# 2016 WASH Meeting

## Location

### St. Clair Hospital Outpatient Center Conference Room

2000 Oxford Drive, Bethel Park PA 15102

Adjacent to Village Square Mall, across Ft. Couch Road from  
South Hills Village Mall, just off of US Route 19



## The WASHRag

Wireless Association of South Hills, Inc.

Ron Notarius W3WN, Editor

3395 Rosewood Drive

Castle Shannon, PA 15234-2546



N3SH / WA3SH  
NP2SH/B

[www.n3sh.org](http://www.n3sh.org)  
[www.washarc.org](http://www.washarc.org)

