



# WASHRAG

TM



VOLUME 20 Issue 3.5  
MARCH 2018 #2

Wireless Association of South Hills

N3SH WA3SH NP2SH/B

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



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 19<sup>th</sup>

The Next WASH VE exam sessions will be **Thursday**, April 19<sup>th</sup>, 2018, 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 not required. Walk-ins welcome!

But if you plan on attending the test session, please contact VE Team Liaison 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: July 19<sup>th</sup>, 2018  
October 18<sup>th</sup>, 2018

### 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 & 443.659 for talk-in or any last minute changes.

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

A welcome if unseasonably warm Saturday morning greeted the **WASH** Breakfast Gang, on Saturday February 24<sup>th</sup>. Running a "split squad" this month, the "South" group of the gang met as usual at **Suzie B's**, 950 South Central Avenue (Route 910 at the intersection of Route 519 at US 19) in Canonsburg. WB4GCS, N3DFK, N3BPB & friend, KB3GMU and N3FB comprised our representation there, and topics of the morning included taxes, working long, repeater control, Microsoft & computer upgrades, hamfests, movies, the Olympics, and Morse Code.

At the same time, the "North" group met at the South Park Eat'N'Park on Route 88, just outside of the entrance to South Park. The brave souls there included W3WN, KB3GMU, N3SBF, K3HCR, WA3VSS, KB3YCX and W3WN, and they talked about vacations, bringing flags, early vendor setup, table cloths or table paper, eating moose, IC-7610 vs TS-990S, Indiana Jones' hat, travelling to NYC, Field Day & the FD GOTA Station, the uBITX, the FT-818, Richie's friends, and Red Shirts = "You're Doomed!"

After breakfast, both groups headed for and met up at the Home Economics building to start setting up tables and getting **WASHFest 2018** ready! (That's your cue to start looking at the pictures...)

Our next gathering of the Gang will be on Saturday, March 31<sup>st</sup>, as usual at **Suzie B's**, 950 South Central Avenue (Route 910 at the intersection of Route 519 at US 19), Canonsburg, officially starting at **8:00 AM**. 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?

Some of our regular items won't be found in this "second" edition for the month, but have no fears, they'll be back in time for April. The main focus of this issue is **WASHFest 2018**. In case you haven't heard, we've done good, once again!

Thanks to EVERYONE who was involved in getting this year's event set up, running, and cleaned up. More to come at the April meeting!

### Carol's Comments



I have received the financial report on **WASHFest 2018**. And I must say, this is the best we have ever done -- by far!

This accomplishment is due to all the help from all the members that put all their hard work in to it.

I would very much like to extend my sincere thanks to all those who came and helped. I have said it before, and I will say it again and again, the members of this club are the greatest. The food was great, thanks to Rick & Jan Bell, and their helper, Norma Plants.

Thanks to Richie who kept the coffee going all day, Harold who sold the 50/50, All the guys who spent time at the door, and to all who took part at the ticket table. The door prizes went smoothly, thanks to Lori. And a special thanks to Chuck who spent the night and brought the speakers. VE sessions went very well thanks to Ron and all the VE's who gave their time to assist.

No matter what needed to be done our members were there to help. Of course, without Richie, my right arm, I would never be able to pull this off.

What else can I say — except to start all over again (2019), and with this I am sure it will be another success.

Thank You All! You're the best!

— 73, Carol Danko KB3GMN  
WASHFest 2018 Chair

### Wireless Association of South Hills Membership

AA3GM	KB3JHR	N3SBF	WASH FL	WASH TN	<b>Silent Keys</b>
AB3NM	KB3YCX	W3WH	KA3UPY/M	K3OL	
AE3DL	KC3ELA	W3WN	W4ZE	KE3XB	AB3KA
K3CMU	KC3GMM	WA3PYU	WASH NE	N3YPB	K3EED
K3HCR	KC3KMY	WA3VSS	N0PEU	WASH TX	K3LIE
K3SGT	KC4WTT	WB4GCS	WASH OR	NB3C	KA3NMG
K3VX	KE7FD	WO3Z	N0WPV	K3LGM	KB3ENX
KA3VXM	N0VLR	Barbara	KB3NVL	KB3JIX	KB3FNM
KB3BYA	N1NCZ	Udren	KB3NVM	Jane Wagner	KB3FQT
KB3DCO	N3BPB		WASH OH	WASH VI	KB3JHQ
KB3GMN	N3DFK		N8DPW	NP2JF	N3CZZ
KB3GMU	N3FB				N3FZ
KB3IAC	N3KFD				N3HKQ
KB3IVX	N3RDG				N3KEH

**If your call should be listed here & isn't, please contact Mark N3RDV**

Through March 11<sup>th</sup>, 2018  
List compiled by  
Mark Stabryla N3RDV, Vice President/Treasurer

AB3KA  
K3EED  
K3LIE  
KA3NMG  
KB3ENX  
KB3FNM  
KB3FQT  
KB3JHQ  
N3CZZ  
N3FZ  
N3HKQ  
N3KEH  
N3OBD  
N3RNX  
N3SKR  
N3SRC  
N3ZEL  
N3XFE  
W3ZLK  
WA3JPP

Join WASH or Renew your Membership Today! Membership Application on Page 17



## Field Day 2018 Operations & Antennas

Bill Hill W3WH and Larry Comden K3VX

Chartiers Township, PA, March 5<sup>th</sup>, 2018 — Field Day weekend at the end of June is less than 4 months from now and if we hope to have a successful and fun weekend of ODing on radio we need to begin planning now.

Our site is to be the same as last year- Babcock Grove in South Park. The first thing we need to decide is how many stations are we going to operate. It's not an easy decision since during the day and early evening hours we sometimes have an excess of available operators but as the hour gets later and into the overnight period operators disappear. It's too bad that Field Day doesn't take the "overnight" off similar to the Pa QSO party or limit the number of hours you can operate during the weekend.

Our decision probably is to choose between the 3A and 4A classifications. The choice of operating class greatly affects the number of antennas, rigs, operators etc etc. Another decision which we must make is whether to have a GOTA(Get on the Air) station for new and/or inactive hams to operate to get their feet wet in an event like Field Day.

One thought that Larry and I have is to separate our antennas as much as possible to assist in minimizing interference among the operating positions. One possible scenario is to place our tower trailer at the bottom of the hill below the shelter. It appears on Google Earth that we could be 500+ feet below the shelter. We would erect an 80 and 40 meter dipole(inverted V?) there and turn them 90 degrees apart. Then we would erect two similar antennas above the shelter. Finally we'll set up our 5BTV vertical across from the shelter and as far away as possible. This will be primarily for 20 meters.

We would, of course, use bandpass filters and common mode chokes and good grounding to help our chances of good performance and minimal interference with each other.

We'll also need volunteers to help with set up, tear down and food. Even though Rick Bell can't be with us this year (family vacation conflict) he's getting the batteries, antenna patch panel, etc prepared. Of course, we need someone to set up the logging network too.

If we decide to follow this general outline, we'll need to buy 1000' of coax and a diplexer (to feed two antennas through one length of coax) or buy even more coax.

We hope to have a Field Day discussion at the April meeting, so please think about all these issues beforehand, so that we can have a valuable conversation about this great annual event.

W3A Field Day 2017 Photo courtesy of and © Copyright 2017 Jim Sanford WB4GCS



## WASHFest 2018 Saturday Setup

Photos courtesy of and © Copyright 2018 Ron Notarius W3WN



Moving the podium into position



Vendor Table Setup





# A Visit To Super Contest Station PJ2T

Larry Comden K3VX

Dormont, PA, February 27<sup>th</sup>, 2018 — A few years ago Geoff, WØCG, gave a talk at Dayton Hamvention entitled *Getting It Up and Keeping It Up at PJ2T*. I got a chance to visit the station on a recent vacation trip to Curacao.

Signal Point is the (unofficial) name of the QTH about 45 minutes drive from Curacao's capital Willemstad. The location is spectacular, directly on the southwest coast of the long, skinny island (Fig 1).

Antennas, antennas and more antennas. An 80 foot and 100 foot tower with lots of aluminum in the air, wires and radials for 80 and 160M. Most antennas are monoband, some fixed direction, a few rotated. (Fig 2)

Diplexers and triplexers allow shared use of a multiband yagis.

There is a rather high cliff not too far to the northeast of the station with a yagi on a short mast pointed at Europe. The feedline is 1400 feet of hardline and the calculated power loss is around 50 percent.

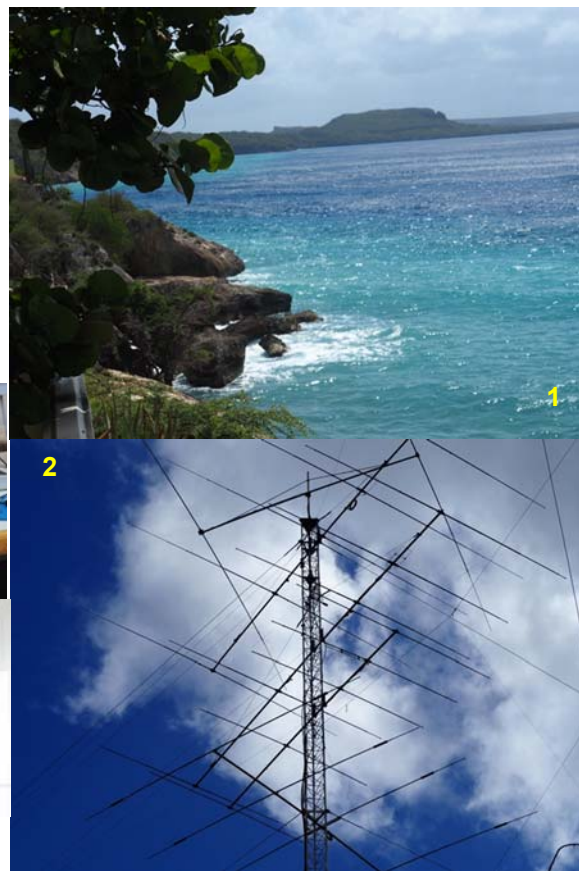
The operator can switch the rig to any of the antennas, obviously with lockout provisions. (Figs 3 4 & 5 show the Elecraft K3, Ameritron Amp, and antenna switching).

All of the actual switching is done by the mechanism shown in Figure 6.

Salt spray corrosion is a constant enemy of towers, antennas, and connectors. The "lucky" members of the Caribbean Contest Club perform about nine hours of maintenance for every hour of operation.

If you're thinking of operating from a super station and location, the station can be rented, but a member of the club must be present during operation. There are houses and apartments for rent nearby — one sleeps up to 10, for \$350/night.

Thanks to Geoff WØCG / PJ2DX and XYL Dorothy for their hospitality.



## WASHFest 2018 Overnight

Photos courtesy of and © Copyright 2018 Charlie Bihun KC3ELA





# Vendor Setup Sunday AM

Photos Courtesy of & © Copyright 2018 Frank Bobro N3FB



## WASH 2018 2 Meter Simplex Contest Results

2018 Contest Chair: Chuck Bihun III KC3ELA

Call	Name	Score	Station Type	Call	Name	Score	Station Type
KC3HJP	Curt McCormick	3366	Mobile	KB3GMN	Carol Danko	1518	Fixed
KA3KSP	Jim Grazulis	3087	Mobile	N3SBF	Richie Danko	748	Fixed
K3VX	Larry Comden	864	Mobile	K3HCR	Harold Rosenberger	612	Fixed
KC3GMM	Nathan Seuhr	567	Mobile	N3FB	Frank Bobro	504	Fixed
KC3IDT	Michael Christeson	270	Mobile	NØVLR	Paul Lusardi	432	Fixed
				KC3IDU	Nick Martch	432	Fixed
				W3ON	Charles Gessner	357	Fixed
				KC3CM	Colleen Martch	260	Fixed
				KB3GMU	Lori Bobro	142	Fixed
				WB4GCS	Jim Sanford	66	Fixed
				WO3X	John Graulis	15	Fixed



Lee WB3ACC and his Elmer, Larry K3VX  
Photo courtesy of & © 2018 Ron  
Notarius W3WN

I won the FT-7900 (2<sup>nd</sup> Prize) on \$20 worth of tickets!

It may be too soon to say, but I'm starting to think my secret-lucky-hamfest-raffle-winning-strategies actually increase my odds of winning!

In any case, I've programmed the radio with every repeater within 50-miles of Pittsburgh, but haven't gotten it on the air yet. It will end up in my new Outback.

Above all, I'd like everyone to know that I really appreciate having won the radio and always enjoy **WASHFest**.

Thanks!

— 73, Gary Van Balen KB3GUZ



## Main Prize Winners

Photos Courtesy of and © Copyright 2018 Ron Notarius W3WN

- First Prize: ICOM-7300 100 W HF+6M Transceiver  
Woody Eicker KB3QHC
- Second Prize: Yaesu FT-7900R Dual Band V/UHF Transceiver  
Gary Van Balen KB3GUZ
- Third Prize: LDT AT200 Pro2 Automatic Antenna Tuner  
James Tapocik AB3JT
- Fourth Prize: Yaesu FT-65R Dual Band V/UHF Handheld  
George Syner WA3OGQ
- Fifth Prize (2): \$100 DX Engineering Gift Certificate  
Rich Shuster WD8SAB  
Kathy King KA3VXM
- Black Box (2): Dave Parkhill AA3YN  
Ralph Bliss K3LBB



## VE Testing Results

Ron Notarius W3WN, WASH VE Team Liason

We had six candidates test at WASHFest 2018.

Of them, I'm pleased to report that we had 5 success stories... two new licensees, and three upgrades!

Congratulations to:

- ◆ Allan Brooks KC3JUR of Lawrence PA, upgrade to from Technician to General
- ◆ Mark Cleveland KC3KPS of Mt. Lebanon, upgrade from General to Extra Class
- ◆ David Dailey III N3TIN of New Kensington, upgrade from General to Extra Class
- ◆ Ken Kern of Upper St. Clair KC3KXY, new Technician
- ◆ Nicholas Scahalles KC3KXX of Forest Hills, new Technician

Thanks also to those VE's who took time away from the hamfest to lend a hand...

- ◆ Ken Frankenberry AA3GM
- ◆ John Froehlich W3FRO
- ◆ Glen Roberts KE7FD
- ◆ Jim Sanford WB4GCS
- ◆ Lee Weifenbach WB3ACC
- ◆ Bill Zeitt WA3VSS

Our thanks also to other club VE's, and VE's from other clubs, who came ready to assist if need be, but the need never, ah, be.





# Scenes from a WASHFest

Photos Courtesy of and © Copyright 2018 Bob Mente NU3Q





*Scenes from a WASHFest* Photos Courtesy of and © Copyright 2018 Bob Mente NU3Q





# Scenes from a WASHFest

Photos Courtesy of and © Copyright 2018 Bob Mente NU3Q





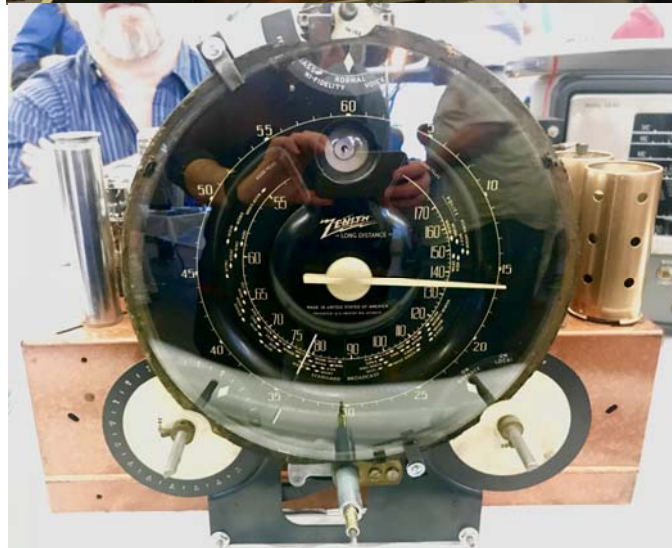
*Scenes from a WASHFest* Photos Courtesy of and © Copyright 2018 Bob Mente NU3Q





# Scenes from a WASHFest

Photos Courtesy of and © Copyright 2018 Ben Williams KB3ERQ





# ARRL Requests Expanded HF Privileges for Technicians

American Radio Relay League

Newington, CT, February 28<sup>th</sup>, 2018 — ARRL has asked the FCC to expand HF privileges for Technician licensees to include limited phone privileges on 75, 40, and 15 meters, plus RTTY and digital mode privileges on 80, 40, 15, and 10 meters. The FCC has not yet invited public comment on the proposals, which stem from recommendations put forth by the ARRL Board of Directors' Entry-Level License Committee, which explored various initiatives and gauged member opinions in 2016 and 2017.

"This action will enhance the available license operating privileges in what has become the principal entry-level license class in the Amateur Service," ARRL said in its [Petition](#). "It will attract more newcomers to Amateur Radio, it will result in increased retention of licensees who hold Technician Class licenses, and it will provide an improved incentive for entry-level licensees to increase technical self-training and pursue higher license class achievement and development of communications skills."

Specifically, ARRL proposes to provide Technician licensees, present and future, with phone privileges at 3.900 to 4.000 MHz, 7.225 to 7.300 MHz, and 21.350 to 21.450 MHz, plus RTTY and digital privileges in current Technician allocations on 80, 40, 15, and 10 meters. The ARRL petition points out the explosion in popularity of various digital modes over the past 2 decades. Under the ARRL plan, the maximum HF power level for Technician operators would remain at 200 W PEP. The few remaining Novice licensees would gain no new privileges under the League's proposal.

ARRL's petition points to the need for compelling incentives not only to become a radio amateur in the first place, but then to upgrade and further develop skills. Demographic and technological changes call for a "periodic rebalancing" between those two objectives, the League maintains.

"There has not been such a rebalancing in many years," ARRL said in its petition. "It is time to do that now." The FCC has not assessed entry-level operating privileges since 2005.

The Entry-Level License Committee offered very specific, data- and survey-supported findings about growth in Amateur Radio and its place in the advanced technological demographic that includes individuals younger than 30. It received significant input from ARRL members via more than 8,000 survey responses.

"The Committee's analysis noted that today, Amateur Radio exists among many more modes of communication than it did half a century ago, or even 20 years ago," ARRL said in its petition.

Now numbering some 378,000, Technician licensees comprise more than half of the US Amateur Radio population. ARRL said that after 17 years of experience with the current Technician license as the gateway to Amateur Radio, it's urgent to make it more attractive to newcomers, in part to improve upon science, technology, engineering, and mathematics (STEM) education "that inescapably accompanies a healthy, growing Amateur Radio Service," ARRL asserted.

ARRL said its proposal is critical to developing improved operating skills, increasing emergency communication participation, improving technical self-training, and boosting overall growth in the Amateur Service, which has remained nearly inert at about 1% per year.

The Entry-Level License Committee determined that the current Technician class question pool already covers far more material than necessary for an entry-level exam to validate expanded privileges. ARRL told the FCC that it would continue to refine examination preparation and training materials aimed at STEM topics, increase outreach and recruitment, work with Amateur Radio clubs, and encourage educational institutions to utilize Amateur Radio in STEM and other experiential learning programs.

"ARRL requests that the Commission become a partner in this effort to promote Amateur Radio as a public benefit by making the very nominal changes proposed herein in the Technician class license operating privileges," the petition concluded.



## NTIA Targets Portion Of 3.4 GHz Band for Potential Wireless Broadband Use

American Radio Relay League

Newington, CT, February 28<sup>th</sup>, 2018 -- The National Telecommunications and Information Administration ([NTIA](#)) has identified 3450 to 3550 MHz for potential wireless broadband use. Amateur Radio has a secondary allocation of 3300 to 3500 MHz, sharing the spectrum with government radars; the popular "weak-signal" frequency is 3456.1 MHz. The NTIA oversees the use of spectrum by federal government agencies.

"America is the world's leader in Wi-Fi and 4G LTE, and we have claimed an early lead in bringing 5G to reality," NTIA Administrator David J. Redl said in making the [announcement](#). "It's essential to American competitiveness that we maintain our leadership in all of these areas."

The NTIA announcement is "great news," according to FCC Chairman Ajit Pai. "The Commission, working together with NTIA, has already made the 3.5 GHz band available for wireless services, and we recently initiated a process to consider whether all or parts of the adjacent satellite spectrum can also be made available" Pai said. "Altogether, this could unleash a contiguous block of hundreds of megahertz of valuable spectrum for new technologies and services, including 5G."

Redl said that the NTIA, in coordination with the Department of Defense and other federal agencies, has identified 100 megahertz of spectrum "for potential repurposing to spur commercial wireless innovation." He said the 3450 – 3550 MHz band "could be a key asset in our nation's broadband spectrum inventory." In the US, military radar systems operate in the 3450 – 3550 MHz band, and Amateur Radio compatibly shares the lower half of that band with the military on a secondary basis. Redl said the Defense Department plans to submit a proposal under the Spectrum Pipeline Act to carry out a comprehensive RF engineering study "to determine the potential for introducing advanced wireless services in this band without harming critical government operations." ARRL intends to contribute to NTIA's study.

The FCC, in coordination with NTIA and the Defense Department, has already approved rules for its planned Citizens Broadband Radio Service (CBRS) in the adjacent 3550 – 3700 MHz band.

In 2014, UK telecommunications regulator Ofcom announced that it was ending Amateur Radio access to significant portions of the 2.3 and 3.4 GHz bands following a year-long [consultation](#) — a rule making proceeding — that involved the release by the Ministry of Defence of 150 MHz of spectrum at 3.4 GHz to prepare for the roll out of future 5G services. Amateur Radio was secondary in the UK on both bands. Ofcom said it expected the spectrum to go on auction in late March.







## WPA Section News

Joe Shupienis W3BC, ARRL Western Pennsylvania Section Manager

Falls Creek, PA, February 23<sup>rd</sup>, 2018 –

### ARRL Announces 2018 Teachers Institutes On Wireless Technology

[Do you know a teacher who is also a radio amateur? Please forward this information to any and all "Teacher/Hams" you know. These courses qualify for PA Act 48 credit. The cost of the courses, travel, lodging and meals are free to qualified teachers. Space is limited and the classes fill up fast, so advise teachers to register now.]

As part of its educational outreach through the Education & Technology Program (ETP), ARRL will offer three sessions of the Teachers Institute on Wireless Technology this July. The week-long workshops will be held at ARRL Headquarters in Newington, Connecticut, and in Dayton, Ohio — hosted by the Dayton Amateur Radio Association (DARA). The Teachers Institute (TI) is an expenses-paid, professional development seminar that provides teachers at all grade levels with tools and strategies to introduce basic electronics, radio science, space technology, and satellite communication, as well as weather science, introduction to micro-controllers, and basic robotics in their classrooms.

The Teachers Institute curriculum is designed for motivated teachers and other school staff who want to learn more about wireless technology and bring that knowledge to their students. The goal of the TI program is to equip educators with necessary foundational knowledge and — through hands-on learning — generate the inspiration for teachers to continue exploring wireless technology and adapt what they learn to their classroom curricula.

Interested educators can apply online. The \$100 enrollment fee is refunded for applicants who are not selected. A qualified applicant must be an active teacher at an elementary, middle, high school, or community college/university, or in a leadership or enrichment instruction role in an after-school program.

The grant to attend a TI covers transportation, hotel, and a modest per diem allowance to cover meals, instructional resources, and a resource library of relevant ARRL publications.

Graduate credit is available through Fresno Pacific University, which may be applied to satisfy professional growth requirements to maintain teaching credentials. The class is self-contained, and participants are expected to be able to complete all requirements during the class time.

Graduate credit forms may be requested at the end of the Teachers Institute.

For more information, contact Ally Riedel at ARRL Headquarters.

### 2017 WPA Yearbook Still Available For Download!

[Don't miss out on what everybody else is talking about! Download your own copy today. We can't send it to you by email – YOU have to download it yourself! It's easy to download, just click on this link or visit this address:

<http://www.arrl.org/attachments/view/Group/92361>

We are pleased to announce the 2017 WPA Yearbook is finally here! You can scroll to the bottom of the WPA Section Page at [arrl.org](http://arrl.org) to download it, or download it right here: 2017 Yearbook

Our 2017 WPA Yearbook is 64 full-color pages that chronicle our Section's Amateur Radio activities over the past 12 months in stunning photos, articles, charts and tables and directories of all Section staff members and appointees.

This is all contained in a 6.7 Megabyte PDF file, which may take a while to download if you use dial-up access, but it's really worth the download! We also have a 240 MB "High Definition" version with much more detail in the photos. We will make this HD version available soon.

We are also looking into printers who can provide a deluxe printed edition perfect for gift giving, or to display to the public during amateur radio events. It looks like the going price at online printers is \$19.00 + shipping from a number of sources. We are still looking for a better deal, and are open to suggestions (No, it's not right to have somebody's employer unknowingly foot the bill for a bunch of "free" color copies!!! Don't even think about it. Remember our principle of "Integrity"!!!)

Newsletter editors: If you ask nicely (or even not so nicely!) we will be happy to provide you with individual articles (or the whole thing) as PDF or DOC/DOCX/ODT files. Just ask!

### Help Wanted

Providing excellent service to a section as big as WPA simply cannot be done by a handful of people. Our WPA friends deserve the best we can give them, and to do that, we need your help! If you have been thinking about volunteering to help, have a look at the list of Station Level Appointments by visiting the ARRL Website at <http://www.arrl.org/field-organization> and scrolling down the page to "Station Level Appointments".

If you're having trouble choosing, take a good look at Technical Specialist. I've often said that everybody is an expert at something, and this appointment gives you the opportunity to share your special knowledge with others. As we all know, a good Elmer can make all the difference to a new ham's enjoyment of amateur radio. The Elmer works with the newcomers to help them get started in the greatest hobby on Earth, which can lead to their lifelong involvement. The Technical Specialist is sort of like an "Official Elmer" and is the go-to person in your club, town or county for all your questions about antennas, radios, grounding, digital modes, and many more topics. If you are that person, why not make it official? Contact me for more information!

### In Conclusion

If you're looking for a program for your club meetings, why not put together some activities for new hams and those who are interested in Amateur Radio? Demo the latest entry level radios like the Icom 7300 and the Yaesu 991A (for example), have some Elmers available to answer questions, have a show and tell about DXing, digital modes, SDR, signal location... the list is endless.

Advertise it as much as you can, especially in schools, colleges, on bulletin boards at work, on your nets, and in person to the hams in your communities who recently got licensed. It doesn't have to be perfect — it just has to be done. Who knows, you might make the difference needed to gain some active new members!

Above all else, go out of your way to make new hams feel welcome and respected! We want to make good amateur radio friendships in the best

### 100+ year tradition of Amateur Radio!

Still looking for more ideas for meeting programs? Drop me an invite or a request for a visit by any of our section staff. We are available to travel to your group, and can discuss a variety of very interesting Amateur Radio topics.

73 and Press On!





# Two Rivers ARC 47<sup>th</sup> Annual Hamfest

Sunday, April 8<sup>th</sup>, 2017, 8:00 AM—2:00 PM

## The Spectrum

6001 Smithfield Street, Boston PA 15135

( Off of PA Route 48 near the city of McKeesport )

Talk-in on 146.730 — Mobile Check In 146.52

Admission \$5

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



## Tri-State Radio Fest

Sponsored by the Pittsburgh Antique Radio Society and Buckeye Antique Radio & Phonograph Club

Sunday, April 22<sup>nd</sup>, 2018, 8:30 AM—2:00 PM

Center State Banquet Hall

1495 Old Broadhead Road, Monaca, PA 15061

Flea Market Sales 8:30 to 12:00 Noon

Auction Items Check-In 9:00 AM to 12:00 Noon — Auction Starts at Noon

More information: Don Merz (412) 735-4959, Ron Bobner (724) 265-4615 or Jeff Pleva (412) 279-9067

<http://www.pittantiqueradios.org/>

# 64<sup>th</sup> Annual BreezeShooters Hamfest & ARRL WPA Section Convention



Saturday, June 2<sup>nd</sup>, 2018 9:00 AM to 5:00 PM

& Sunday, June 3<sup>rd</sup>, 2018 8:00 AM to 2:00 PM

at the Big Butler Fairgrounds,

1127 New Castle Road (US 422), Prospect PA 16052

\$10 Per Person Admission Donation Good for Both Days

Indoor Tables & Tailgate / Flea Market Spaces Available

Flea Market spaces \$15 per space, Good for Both Days

Fairgrounds open at 5 AM Saturday & Sunday for Vendor & Tailgate Setup

14 Main Prizes

Half Hour Prizes (based on Admission Tickets)

Indoor Tables \$25 per table and may be reserved by calling (724) 410-1028

Or mail reservations to PO Box 101018, Pittsburgh PA 15237

Table reservation cut-off date May 20<sup>th</sup>, 2018

Download directions & the latest flyer from the BreezeShooters Web Site at

<http://www.breezeshooters.net> or email [hamfest@breezeshooters.org](mailto:hamfest@breezeshooters.org)



# Somerset County ARC 15<sup>th</sup> Annual Hamfest

Sunday, July 1<sup>st</sup>, 2018, 8:00 AM—1:00 PM

Vendor Setup beginning at 6:00 AM

## Somerset County Technology Center

281 Technology Drive, Somerset PA 15501

Talk-in on 147.195 and 443.250 PL 123.0 Admission \$5

More Information at <http://www.k3smt.org>



# Butler County ARA Swapfest 2018

Sunday, September 9<sup>th</sup>, 2018, 8:00 AM—3:00 PM

Grounds Open at 6 AM for Vendors & Tailgaters

Unionville Volunteer Fire Department

102 Mahood Road (at Route 8 North), Butler, PA 16001

Talk-in on 147.360 PL 131.8

Admission \$5

More Information at <http://www.w3udx.org>



# WACOM HAMFEST 2018

## Printscape Arena

*[ New Location! ]*

114 Southpointe Blvd, Canonsburg PA 15317

Sunday, November 4<sup>th</sup>

8:00 AM to 3:00 PM

Setup at 6:30 AM

Talk-In on 146.790 (131.8 PL)



First Prize: ICOM IC-7300 HF & 6 M Transceiver  
Second Prize: Yaesu FTM-3200DR 65 W 2 Meter FM Mobile Transceiver  
Third Prize: Yaesu FTM-3200DR 65 W 2 Meter FM Mobile Transceiver  
Fourth Prize: Yaesu FTM-3200DR 65 W 2 Meter FM Mobile Transceiver  
Other Prizes To Be Announced

## Main Prize Drawing at 1 PM

Winner Need Not Be Present To Win

Black Box: What is it? It's a Mystery!  
— Only 50 Tickets Sold! —

VE Testing starting at 9:00 AM

Breakfast & Lunch Will Be Available

Check [www.wacomarc.org](http://www.wacomarc.org) for Updates



Vendors contact: Bud Plants N3TIR

[bud@n3tir.com](mailto:bud@n3tir.com) 724-350-6745

Or WACOM, c/o Norma Plants N3YJJ, 236  
Chambers Ridge Rd, West Alexandria, PA  
15376

*The sale of illegal amplifiers or Adult Material  
is strictly prohibited*





# 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)) →

	<input type="checkbox"/> 1st Qtr Jan-Mar	<input type="checkbox"/> 2nd Qtr Apr-Jun	<input type="checkbox"/> 3rd Qtr Jul-Sept	<input type="checkbox"/> 4th Qtr 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 (\$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



## DXers have a choice!

Get a free two week trial of The Daily DX and The Weekly DX and decide for yourself which one best fits your needs for informing you of all the DX news!



Send an email to [bernie@dailydx.com](mailto:bernie@dailydx.com) or go to [www.dailydx.com](http://www.dailydx.com)

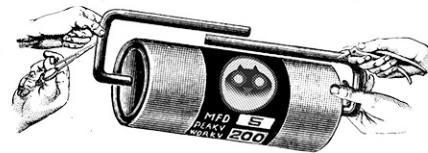
The Daily DX, 3025 Hobbs Road,  
Glenwood, MD 21738 Phone: 301-854-5650



**Arghh!**  
What Mightst We Draw For Ye, Matey?



**HANDMADE BY GNOMES.**

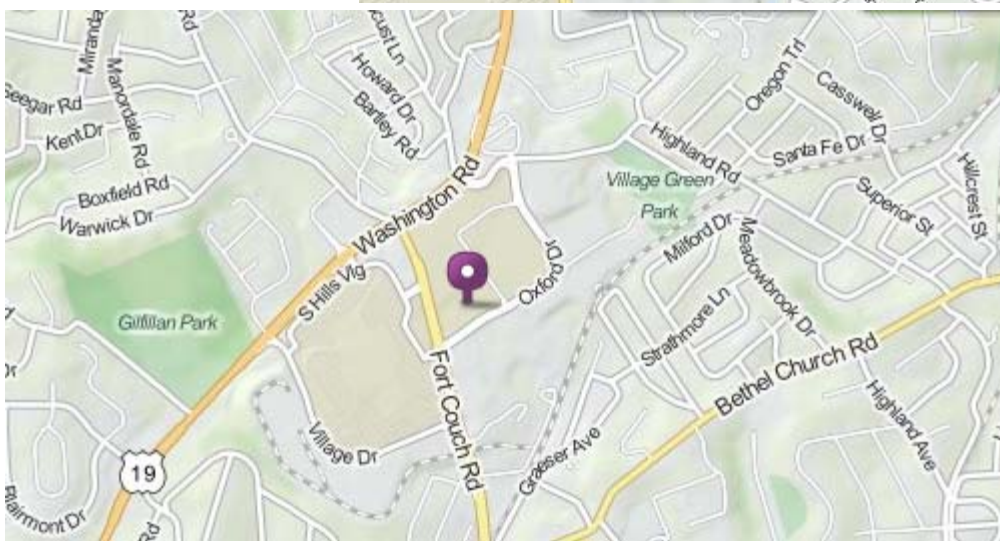
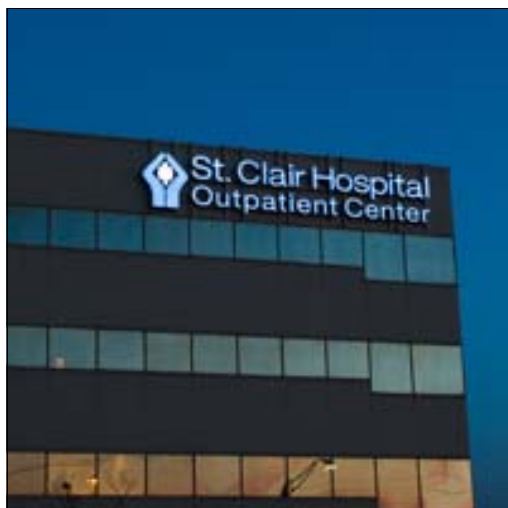
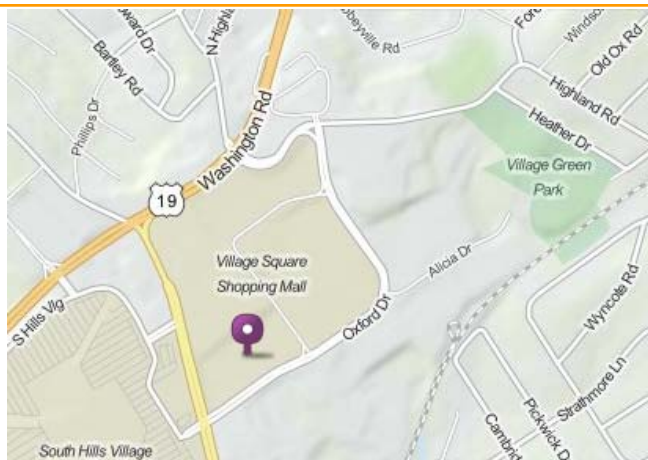




# 2018 WASH Meeting Location

## 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)



**WASHFest... a chance to meet old friends, after a long winter...  
...and for that matter, all kinds...**