



WASHRAGTM



VOLUME 18 ISSUE 08
AUGUST 2016

HARA Closing
See Page 10

Wireless Association of South Hills

N3SH WA3SH NP2SH/B

www.n3sh.org www.washarc.org



WASHRAG™



VOLUME 18 ISSUE 08

AUGUST 2016

Next Monthly Meeting: Thursday, August 4th, 2016

The next meeting of the **WIRELESS ASSOCIATION OF SOUTH HILLS, INC.** will be on **Thursday, August 4th 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 NPOTA operation, Pa QSO, 501(c)(3) progress, updating the by-laws, End-of-Summer picnic, JOTA, other club plans for 2016, and more. See you there!

Cover Photo: Half of our VE Test Candidates at WPXI on July 21st. See more photos & details on Page 4!

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	Chuck Bihun KC3ELA
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
	Bill Hill W3WH

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.

This issue is © Copyright 2016 by the **WIRELESS ASSOCIATION OF SOUTH HILLS, INC.**

Editor & Publisher: Ron Notarius W3WN

Permission is granted to other Amateur Radio publications to reprint articles in this issue, provided the original author and "The WASHRag™" are given credit. Comments, articles, and requests for copies of or information about "The WASHRag™" should be mailed to the editor:

Ron Notarius W3WN
3395 Rosewood Drive
Castle Shannon, PA 15234-2546

e-mail: newsletter@n3sh.org or w3wn@arrl.net

"The WASHRag", "The Mariner", SHARCfest, South Hills Hamfest, WASHfest, WASHfest 2016, N3SH Net, WA3SH Net and WASHNet are trademarks of the **WIRELESS ASSOCIATION OF SOUTH HILLS, INC.**

The **WIRELESS ASSOCIATION OF SOUTH HILLS, INC.** was founded on August 23rd, 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 October 20th

The Next WASH VE exam sessions will be **Thursday**, October 20th, 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 not required. Walk-ins welcome!

But iff 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

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)

2017 test dates: WASHFest 2017, February 26th, 2017
Remaining Dates TBA

Carol's Comments



Now that Field Day is behind us, with much success I might add, I would like to thank all those who participated in helping with set up, contacts, tear down, and let's not forget food. I am sure all those who attended had a good time. We have the same place reserved for next year.

I understand that some of our members are interested in doing National Parks on the Air on August 17th. Not sure exactly what you do but getting on the radio is always fun.

Our next contest PA QSO coming up in October This will be discussed at the meeting as well as NPOTA operation.

Hope every on is staying cool.

See you at the meeting.

— 73, Carol Danko KB3GMN
President, Wireless Association of South Hills, Inc.
N3SH / WA3SH / NP2SH/b

Those of you who've been around a long time remember the infamous Soviet OTH Radar system known as the Woodpecker, which has been abandoned for many years now. HB9EIG/ G1RUL recently visited the Duga 1/3 site near Chernobyl, and used it... as a drone obstacle course!

See <https://www.youtube.com/watch?v=YhJpdCZNSDc>

The skies seemed dark and overcast, the morning of July 30th, as the members of **the WASH Breakfast Gang** at **Suzie B's**, 950 South Central Avenue (Route 910 at the intersection of Route 519 at US 19) in Canonsburg. The light drizzle began as the last of us arrived, and then the downpour came as we were leaving. (Maybe that meant we all had such a good time, we should have stayed?) This month's crew included W3WH, N3FB, KB3GMU, WB4GCS, N3KFC, K3HCR, N3IDH, N3BPB & Jen, and W3WN. Amongst the topics covered with good food and hot coffee were the last mile to the studio, no progress on the OCF antenna, possible NPOTA op on August 17th in Friendshipville, AES closing, HARA closing, HRO opening a Milwaukee Superstore, vacationing on Presque Isle & partying on the boat, TV reporters saying "The Red Cross is here" in front of a Salvation Army van, the new ICOM 7300, working a YL at W1AW, driving for Bud Baer, trash-talking during holiday season.... And a whole lot more.

Don't forget that our next gathering of the Gang will be on Saturday, August 27th, as usual at **Suzie B's**, 950 South Central Avenue (Route 910 at the intersection of Route 519 at US 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!) [We may also due a "split squad" at the South Park Eat N Park for those who plan to proceed straight to Field Day setup, TBD.] See you there?

And here you thought July was a dull month? First comes the surprising news that **AES is closing its doors**. Followed by the announcement by **HRO picking up the pieces** — you can read the details on Page 12. And just when all that got digested came the news at the end of the month that the **HARA Arena is permanently closing** at the end of August, which means the Dayton Hamvention will have a new home for 2017. THAT story is on Page 10. Wow! And that's on top of the FCC actions (page 7), and the FAA actions on towers that will affect at least some Amateurs (page 9). (Someone cue Billy Joel's **We Didn't Start the Fire!**)

The **59th Annual Pennsylvania QSO Party** is coming up 7—8 October. Plans for club activity are in progress, with Rick KB3IAC looking into another club op from the Heritage BSA facility in Fayette County, a possible operation from the St. Clair Hospital EOC (that is only a possibility, pending discussion with Venard and a lot of other things coming into play), several individual ops by club members (Carol & Rich going back to Clarion for one), and more. Details to be discussed at the August meeting. If you've operated the contest before, either solo or with the gang, you know it can be a lot of fun. If you haven't, well, consider joining us and having a blast with the rest of us!

The **59th Jamboree on the Air** is coming up 14—16 October, the weekend following PA QSO. The organizers at the BSA are urging as many Amateur operators as possible to connect with a Scout troop and try to get them on the air during JOTA. Ye Editor knows that we have at least one club member with sons currently active in Scouting... so maybe THIS is the year to consider a formal N3SH JOTA operation, in conjunction with this or other South Hills based Scout groups. What do you think? And if you agree it's a good idea, are you willing to lend a hand and help get it organized, off the ground and on the air?

Club members recently were sent a PDF from Jim WB4GCS covering the **N3SH Bandpass Filters**. If you didn't see it, it's on the club website. It's just too big an article to fit in the newsletter, and trying to cut it down to a 1 or 2 page summary would be an injustice! As a bonus, Jim sent along a photo of the capacitors from the 40 meter filter, which you'll find on Page 4 underneath the monthly Club Minutes.

You did catch in the minutes that all club members & their families are invited to the **Steel City ARC annual Open House and Corn Roast** at the W3KWH shack on August 21st, right?

WASHNet NCS Schedule

08/01/2016	Glen KE7FD	09/26/2016	Bob AB3ED
08/08/2016	Harold K3HCR	10/03/2016	Carol KB3GMN
08/15/2016	Digital Net	10/10/2016	Chuck KC3ELA
08/22/2016	Larry K3VX	10/17/2016	Digital Net
08/29/2016	Mike WA3PYU	10/24/2016	Dave N3DFK
09/05/2016	Rick KB3IAC	10/31/2016	Fred KB3DCO
09/12/2016	Bill W3WH	11/07/2016	Glen KE7FD
09/19/2016	Digital Net	11/14/2016	Harold K3HCR

Indicates Swap Net After the Regular Net

Join WASH or Renew your Membership Today! Membership Application on Page 15

Minutes, July 7th Meeting

Ben Williams KB3ERQ, Vice President / Secretary, **WASH**

Carol KB3GMN called the meeting to order at 19:04 hours. 15 members and 0 guests were in attendance.

A moment of silence was observed for recent silent keys & others deserving.

Motion to waive reading of the minutes based on the minutes printed in the newsletter by Rick KB3IAC, second by Bill W3WH, passed unanimously.

Committee reports:

Treasurer (N3RDV): A balance on the bank account was read & accepted.

Motion by Rick KB3IAC, second by Harold K3HCR to authorize the Treasurer to pay the monthly bills presented. Passed unanimously.

Secretary (KB3ERQ): No Report

VE (W3WN): Next test session will be July 21st at WPXI, then October 20th.

Thanks again to WPXI for the use of their community room for testing this year, & to N3FB for making the arrangements.

Repeaters (N3FB): Repeating.

WASHNet (KC3ELA): Attendance could be better, but it is always down in the summer.

N3SH.ORG (N3NWR): No report

Contests (K3VX): Several upcoming events noted in the newsletter.

Field Day (KB3IAC/W3WH): Overall it was a good weekend.

- Attendance was down.
- Setup with very well — we were pretty much ready to operate by noon.
- Digital station did very well with constant operators.
- Jim WB4GCS persevered with the CW station.
- Very good participation evening and nighttime.

Straw poll taken of member in attendance over next year's possible FD pavilion.

Seven votes of Outlook, 3 for Babcock, no preference from the others.

Public Service (N3RDV): PVGP PittRace is this coming weekend, PVGP

Schenley Park is next weekend. Please contact Corky N3MJP if you can help out with radio communications.

Ways & Means (KB3GMN): Member contributions will be accepted tonight.

Newsletter (W3WN): Out.

President (KB3GMN): Congratulations & thanks to everyone who came out to Field Day. We have two hamfests coming up this month, Steel City ARC is having their annual Open House & Corn Roast on August 21st, all club members and their families are invited.

Old Business: No change in status with the 501 C3. Nothing has been done since Field Day.

New Business: Bill W3WH asked about club plans for Pa QSO 2016.

Discussion. Rick with talk with Venard about possibility of running a station from SCH. Rick is still planning on a club operation from Heritage.

Short discussion of JOTA possible plans by club members.

Good of the Order: Mention of AES Closing.

Motion to Adjourn by Bill W3WH., second by Harold K3HCR and carried unanimously.

Meeting adjourned at 19:40



Blown caps from the N3SH 40 Meter bandpass filter.
Complete article on the filters can be found on the
N3SH.ORG web site

Photo courtesy of & © 2016 Jim Sanford WB4GCS

WASH Spotlight: Testing



Congratulations to all six of our candidates at the last VE Session on July 21st!

New Technicians Robert Bourne, Paul Gough, Randal Zorn, Jan Wonsettler and Sandra Dugan.

New Extra Class Chris Sanford KD4SVL.

Thanks to our VE Team, including Rich Danko N3SBF, Chuck Davis N3UUZ, Glen Roberts KE7FD & Ron Notarius W3WN



Photos courtesy of and ©
Copyright 2016
Ron Notarius
W3WN

Every month we're going to feature a **WASH** club member, something about them, something they're involved in or a club-related activity that we're involved in, in the **WASH Spotlight**. Submissions for the Spotlight should be sent to Ron W3WN at [newsletter at n3sh dot org](mailto:newsletter@n3sh.org)

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 **Suzy 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!

Wireless Association of South Hills Membership

AB3ED	KB3RVI	W3VFA	WASH FL	WASH SC	Silent Keys
AA3GM	KC3DOF	W3WH	KA3UPY/M	N3RNX	
AB3NM	KC3ELA	W3WN	W4ZE	WASH TN	AB3KA
AE3DL	KC4WTT	W4CKR	WASH NE	K3OL	K3EED
K3HCR	KE7FD	WA3PYU	N0PEU	KE3XB	K3LIE
K3SGT	KI5ZT	WA3VSS	WASH OR	N3YPB	KA3NMG
K3VX	N1NCZ	WB4GCS	N0VLR	WASH TX	KB3ENX
KA3VXM	N3DFK	WO3Z	N0WVPV	NB3C	KB3FNM
KB3DCO	N3FB		KB3NVL	K3LGM	KB3FQT
KB3GMN	N3IDH		KB3NVM	KB3IJX	KB3JHQ
KB3GMU	N3KFD		WASH OH	Jane Wagner	N3CZZ
KB3IAC	N3RDV		N8DPW	WASH VI	N3FZ
KB3IVX	N3RHT			NP2JF	N3HKQ
KB3JHR	N3SBF				N3KEH
KB3ORO	NU3Q				N3OBD

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

Through July 29th, 2016
List compiled by
Mark Stabryla N3RDV, Vice President/Treasurer

WA3JPP

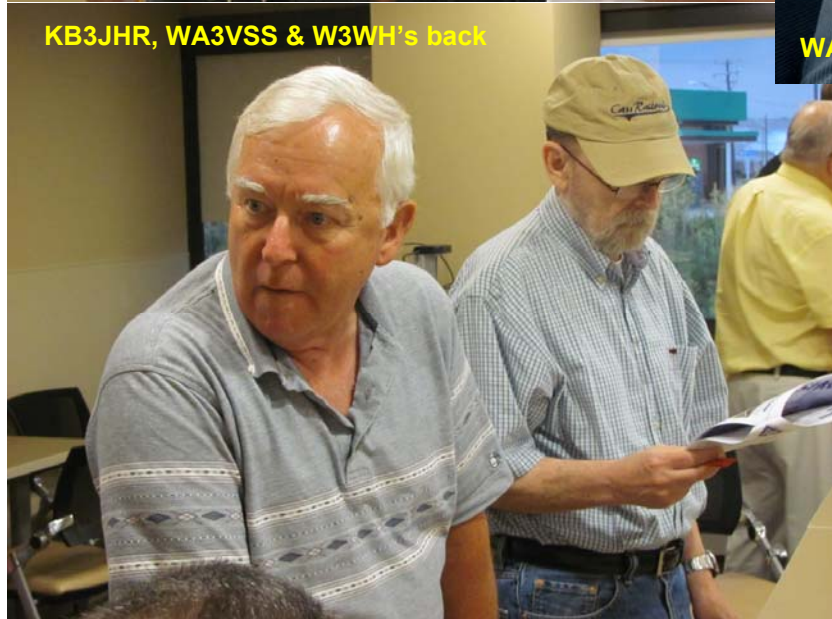
2016 / 17 WASH Upcoming Events Calendar

Club Meetings & Other Significant Events — Subject to Change

August 4 th	WASH Meeting	St. Clair Hospital Outpatient Center, 2000 Oxford Drive, Bethel Park
August 28 th	Skyview RS Hamfest	http://www.skyviewradio.net
September 1 st	WASH Meeting	St. Clair Hospital Outpatient Center, 2000 Oxford Drive, Bethel Park
September 3 rd	Uniontown ARC Gabfest	http://www.w3pie.org
September 10 th — 12 th	ARRL September VHF Contest	http://www.arrl.org
September 11 th	Butler Co ARA Swapfest	http://www.w3udx.org
October 1 st — 2 nd	51 st California QSO Party	http://www.cqp.org/
October 6 th	WASH Meeting	St. Clair Hospital Outpatient Center, 2000 Oxford Drive, Bethel Park
October 8 th — 9 th	59 th Pennsylvania QSO Party	http://www.nittany-arc.net/PAQSO.html
October 14 th — 16 th	59 th Jamboree On The Air	http://jotajoti.info/
October 20 th	WASH VEC Exam	WPXI Community Room, 4145 Evergreen Road, Pittsburgh PA
October 29 th — 30 th	CQ WW DX Contest SSB	http://www.cqww.com
November 3 rd	WASH Meeting	St. Clair Hospital Outpatient Center, 2000 Oxford Drive, Bethel Park
November 5 th — 7 th	ARRL Sweepstakes CW	http://www.arrl.org
November 6 th	WACOM Hamfest	http://www.wacomarc.org
November 12 th — 19 th	ARRL Sweepstakes Phone	http://www.arrl.org
November 26 th — 27 th	CQ WW DX Contest CW	http://www.cqww.com
December 1 st	WASH Meeting	St. Clair Hospital Outpatient Center, 2000 Oxford Drive, Bethel Park
December 2 nd — 4 th	ARRL 160 Meter Contest	http://www.arrl.org
December 10 th — 11 th	ARRL 10 Meter Contest	http://www.arrl.org
December 31 st	Straight Key Night	http://www.arrl.org
February 18 th - 19 th	ARRL DX Contest CW	http://www.arrl.org
February 26 th	WASHFest 2017	New Location! Home Economics Building, 3735 Buffalo Drive, South Park
March 4 th - 5 th	ARRL DX Contest SSB	http://www.arrl.org

"Seen" at the July Meeting

Photos Courtesy of and © Copyright 2016 Ron Notarius W3WN



FCC Takes Action To Permit Greater Flexibility in Amateur Radio Data Communications

Federal Communications Commission

Washington, DC, July 27th 2016 — The FCC took action today to adopt sections of NPRM RM-11708 to adjust the technical standards that are applicable to data communications that may be transmitted by the Amateur Radio Service.

The entire NPRM can be found at https://apps.fcc.gov/edocs_public/attachmatch/FCC-16-96A1.doc or https://apps.fcc.gov/edocs_public/attachmatch/FCC-16-96A1.pdf.



"In this *Notice of Proposed Rulemaking (NPRM)*, we propose, in response to a petition for rulemaking filed by the American Radio Relay League, Inc. (ARRL), to amend Part 97 of the Commission's Rules regarding technical standards applicable to data communications that may be transmitted in the Amateur Radio Service. Specifically, we propose to remove limitations on the symbol rate (also known as baud rate)—the rate at which the carrier waveform amplitude, frequency, and/or phase is varied to transmit information—applicable to data emissions in certain amateur bands. We believe that this rule change will allow amateur service licensees to use modern digital emissions, thereby better fulfilling the purposes of the amateur service and enhancing its usefulness."

"The ARRL Petition requests that the Commission remove all of the symbol rate limits, and add a bandwidth limitation for RTTY and data emissions in the medium frequency (MF) and high frequency (HF) bands (*i.e.*, below 30 MHz) of 2.8 kilohertz. It argues that the symbol rate limits are outdated, and hamper or preclude amateur radio experimentation with modern data transmission protocols that are available and in active use in other radio services."

The FCC tentatively agreed with the ARRL position that the baud rate limits should be eliminated, in light of the technical advances made since the current rules were first put in place. They also noted that many commenters agreed with this position, and are seeking comments on reasons to support these views. They also note that no other radio service has symbol rate limits imposed on it.

However, the FCC did not agree with the ARRL that a 2.8 kHz bandwidth for RTTY and data transmissions on HF or MF bands was necessary. While they note that many commenters did agree with the FCC that bandwidth limit was desired, they also noted that most requested an even narrower bandwidth. The FCC concluded, after reviewing the comments, that a specific bandwidth limit is not necessary, and that existing rules should be more than sufficient to accomplish the same purpose.

"In summary, we believe that the public interest may be served by revising the amateur service rules to eliminate the current baud rate limitations for data emissions consistent with ARRL's Petition to allow amateur service licensees to use modern digital emissions, thereby furthering the purposes of the amateur service and enhancing the usefulness of the service. We do not, however, propose a bandwidth limitation for data emissions in the MF and HF bands to replace the baud rate limitations, because the rules' current approach for limiting bandwidth use by amateur stations using one of the specified digital codes to encode the signal being transmitted appears sufficient to ensure that general access to the band by licensees in the amateur service does not become unduly impaired."

Comments will be accepted by the FCC for 60 days after the date of publication of this decision in the Federal Register, with reply comments accepted for 90 days after the date of publication.

FCC Seeks Comments On Waiver Request from Expert Linears

American Radio Relay League



Newington, CT July 29th 2016 — The FCC is inviting comments on a June 11th request from [Expert Linears America LLC](#) to waive §97.317

(a)(2) of the Amateur Service rules to permit it to import, market, and use its model 1.3K FA amplifier in the US. The Texas company is seeking the waiver pending resolution of its earlier Petition for Rule Making (RM-11767), which called on the Commission to eliminate the 15 dB gain limitation on Amateur Radio amplifiers altogether. Expert said the version of the model 1.3K FA amplifier it now imports has been modified to comply with current rules.



"Expert seeks a waiver in order to be able to import the unmodified version of the Model 1.3K FA, which is capable of considerably more than 15 dB amplification," the FCC explained in a July 29th Public Notice. "Expert argues that the public interest would be served by permitting use of a higher-powered amplifier, because it would improve the communications capabilities of amateurs using portable, low-power transmitters by enabling them to approach the maximum legal power output." Expert assured the FCC that its model 1.3K FA has proprietary software to prevent it from transmitting in the 26-28 MHz band, so it cannot be used in the Citizens Radio Service.

On May 26th, ARRL told the FCC that it "strongly supports" Expert's petition seeking to eliminate the Amateur Service rule, spelled out in §97.317(a)(2), that amateur amplifiers not be able to boost the RF input signal by more than 15 dB.

Comments on Expert's waiver request are due by August 29th, reply comments by September 13th.



To all ARRL members in **Western Pennsylvania**, EMA, MO, NE, NYC-LI, NNY, SC, SNJ, and WCF sections: You are hereby solicited for nominating petitions pursuant to an election for Section Manager (SM). Incumbents are listed on Page 16 of QST.

To be valid, a petition must contain the signatures of five or more full ARRL members residing in the section. It is advisable to have a few more than five signatures on each petition. A sample nomination form is available on the ARRL website at www.arrl.org/section-terms-nomination-information. Nominating petitions may be made by facsimile or electronic transmission of images, provided that upon request by the Field Services & Radiosport Manager, the original documents are received by the Manager within 7 days of the request.

Any candidate for the office of Section Manager must be a resident of the Section, an Amateur Radio licensee of Technician class or higher, and a full member of the League for a continuous term of at least 2 years immediately preceding receipt of a nominating petition. Petitions must be received at Headquarters by 4 PM Eastern Time on September 9th, 2016. If more than one member is nominated in a single sections, ballots will be mailed from Headquarters on or before October 3rd, 2016, to full members of record as of September 9th, 2016.

Section Managers elected will take office on January 1st, 2017

— David Patton NN1N, Field Services & Radiosport Manager, ARRL

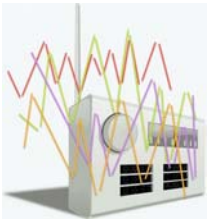
"Seen" at the 2016 PVGP

Photos Courtesy of and © Copyright 2016 Ron Notarius W3WN



The Great QRM Track-Down

Dave Brill KK4NSF



Over the last few months, the amount of electrical noise I was picking up in my receiver has steadily increased, from ~S2 to about S5+. Needless to say, this severely impacted my ability to receive weak signals, and killed almost any chance of making DX contacts. I wasn't ignoring you guys.... I couldn't hear you!

So over a weekend, I launched a massive Anti-Noise campaign in my neighborhood, in an attempt to track down the low-life so-and-so who was pumping all of that Static into my once-pristine Air Waves. I had a STRONG suspicion that it was a factory right down the road. Using a field-strength meter, a small portable receiver and my directional loop antenna I was able to get a line on where the noise was coming from.

Then I moved about 50 meters and got another line... and so forth until I knew exactly where the noise was coming from: my own house!

As it turned out, the worst culprits (yes, there were several) turned out to be cheap laptop computer power supplies that I'd bought off of e-Bay, and my television set. One of the power supplies was putting out enough static that I could hear when my wife unplugged it from 50 yards away! My desktop computer was also putting out a nice "chopper" signal, but to a lesser degree.... along with a few other electrical gizmos I own.

Looking at the power supplies, and the power supply in my desktop, all of them were made in China, and none of them are listed as compliant with any US regulations or were UL listed.

After I disconnected all of the culprits, my airwaves returned to their beautifully quietness, broken only by the sounds of all my friends on 40 and 80 meters! (Right up until my A/C unit kicked on. Oh well!!)

So, is there a moral to this story? Yes; there are two:

- (1) Don't buy cheap power supplies off of eBay; and
- (2) If your QRM levels are running very high like mine were, check your own house first! You'll be amazed at how much RF all of your electronic toys put out.

Future FAA Rules Could Affect Some Amateur Radio Antenna Support Structures

American Radio Relay League

Newington, CT, July 20th 2016 — Yet-to-be-developed Federal Aviation Administration (FAA) rules stemming from the recent passage in Congress of [H.R. 636](#), the FAA Reauthorization Act, could pose additional marking requirements for a small number of Amateur Radio towers. The bill instructs the FAA to enact rules similar to state-level statutes now in place that are aimed at improving aircraft safety in the vicinity of meteorological evaluation towers (METs) set up in rural areas. In the wake of fatal crop dusting aircraft collisions with METs, often erected on short notice, the National Transportation Safety Board (NTSB) recommended in 2013 that states enact laws — sometimes called "crop duster" statutes — requiring marking and registration of METs. While some state crop duster laws exempt ham radio towers, the federal legislation does not. ARRL General Counsel Chris Imlay W3KD, said, however, that the list of exemptions in the federal legislation restricts application of the new rules to a very small subset of Amateur Radio towers.



"The FAA Reauthorization Act has very little application to Amateur Radio antennas. We will have a good opportunity to address the final FAA rules through the normal rulemaking process," Imlay said. "We'll be meeting soon with FAA officials to learn their intentions as well as to advance our own concerns to the agency. Uniform federal regulation is beneficial to hams, because it eliminates a patchwork of state statutes that can impose significant constraints on ham antennas in rural and agricultural areas."

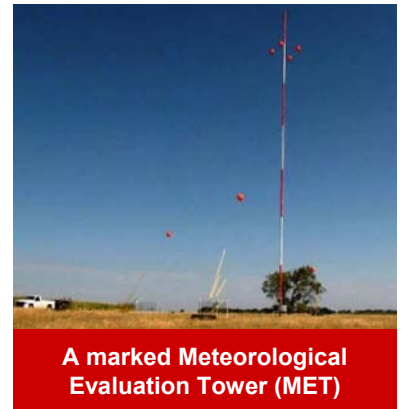
The FAA Reauthorization Act gives the FAA 1 year to issue regulations requiring the marking of towers covered by the legislation. Marking of towers covered by the legislation will be in the form of painting and lighting in accordance with current FAA guidelines.

The law covers towers that are "self-standing or supported by guy wires and ground anchors;" are 10 feet or less in diameter at the above-ground base, excluding concrete footings; are between 50 feet above ground level at the highest point and not more than 200 feet above ground level; have accessory facilities on which an antenna, sensor, camera, meteorological instrument, or other equipment is mounted, and are located outside the boundaries of an incorporated city or town or on land that is undeveloped or used for agricultural purposes.

Imlay said the law excludes towers erected adjacent to a house, barn, electric utility station, or other building, or within the curtilage (enclosed area occupied by a dwelling, grounds, and outbuildings) of a farmstead, among other exclusions. He said "undeveloped" land refers to a defined geographical area where the FAA determines that low-flying aircraft routinely operate, such as forested areas with predominant tree cover below 200 feet, and pasture and range land.

The FAA will develop a database containing the location and height of each covered tower, but Imlay noted that the database contents may only be disclosed for purposes involving aviation safety.

"We do not anticipate that a significant number of Amateur Radio antennas will be subject to these rules," Imlay said, "but we need to monitor the FAA rulemaking process carefully to head off requirements that could put the cost of installing and maintaining affected structures out of any reasonable reach."



A marked Meteorological Evaluation Tower (MET)

US Department of Defense (DOD) Military Auxiliary Radio Service (MARS) operators in the US, Germany, and Japan, will take part in an interoperability communications exercise in August. The exercise will take place on Monday, August 15th, 1200 UTC to 2359 UTC.

The focus of the exercise is "to train during a simulated communications-constrained environment using radio-only communication capabilities," MARS said. Throughout the exercise, MARS operators will reach out and attempt connect with Amateur Radio operators at the local and regional levels using HF, VHF, and UHF. For the purposes of this exercise, the use of the 60 meter interoperability channels — dial frequencies 5330.5 and 5346.5 kHz — are authorized and encouraged. Other bands will be coordinated by MARS members at the local/regional level with their ARES/RACES/club counterparts.

The exercise is tied in with a larger DOD exercise, which will include participation by active duty forces.

— Army MARS Program Manager Paul English WD8DBY & the American Radio Relay League

HARA Arena Closing Hamvention To Relocate

Trotwood, OH, July 29th – WDTN TV 2 Dayton announced today during their newscasts and online that after 60 years, the owners of the Hara Arena are closing the facility. The last scheduled event takes place on August 27th.

Primary reason cited in the press release from the Wampler family was an "internal legal battle that has spanned the last two decades."

Hara's marketing director, Karen Wampler, stated "We are painfully aware of the loss this announcement will generate, which is why we have fought so long and hard to prevent it... We had hoped to announce a new era at Hara, but are announcing the end of one instead."

When co-owner Harold Wampler passed away in 1996, issues with his estate (reportedly he left no will) launched the legal battle involving members of the family. This left the family and the facility without the financial resources that they needed for building renovations and changes in ownership/management.

Shortly after the news broke, the Dayton Amateur Radio Association (DARA), who host Hamvention, announced that they have had contingency plans in the event the Hara facility closing or otherwise being unavailable. The announcement from Ron Cramer KD8ENJ, General Chairman of Hamvention 2017, indicated that they have a new venue lined up, and that it will remain on the same weekend and in the Dayton area. They want to assure everyone that current accommodations & scheduled outside events related to Hamvention should not be affected.

The new venue has not yet been announced "due to timing and logistics issues" but there will be a formal announcement "soon"

The Hara Arena complex began as the Wampler Ballarena (now the Ballarena exhibit hall) in the 1950's.

According to the WDTV post, the loss of the facility will cost the Dayton area \$36 million in annual economic impact. 'Hundreds' of events are now searching for new venues.

At it's peak, Hamvention drew over 35,000 Amateur Radio operators from around the world. DARA has stated that Hamvention 2016 had over 25,000 attendees. The event is worth "millions" in revenue to the Dayton area economy.

There is no word on what the ultimate fate of the buildings & the property (including the now closed golf course next door) will be.

WDTV article can be found at:

<http://wdtn.com/2016/07/29/hara-arena-to-shut-down/>

DARA announcement can be found at:

<http://hamvention.org/dayton-hamvention-2017-venue-announcement/>

ARRL article at

<http://www.arrl.org/news/good-bye-hara-arena-hamvention-to-relocate-in-2017>



**Upcoming Renovations
were advertised at
Hamvention 2015, but
were not to be**



**Congratulations
to Bill Hill W3WH,
holder of Five
Band DXCC
#8106.**

**Considering that
5BDXCC only
began to be
awarded circa
1970, that is a
very elite group to
belong to!**

DX News Briefs



Contrary to erroneous reports making the rounds on various Internet sites, **no Amateur Radio licenses were suspended or revoked in Turkey** in the wake of the failed July 15th coup.

"There is no ham radio license revoked in Turkey, and ham radio operators are operating normally," said Aziz Sasa TA1E, the president of Turkey's International Amateur Radio Union member society **TRAC**. "The reports on ham radio licenses being revoked by the Supreme Council of Radio and Television (RTUK) are unconfirmed and speculative. RTUK is not a regulatory body of ham radio," Sasa added. His entire statement has been posted to the TRAC website.

The erroneous reports cite a release from RTUK, which oversees broadcasting. Amateur Radio and other wireless industries are regulated by BTK, a separate agency. Three stations in Turkey were reported heard on 10 meters during an opening to Central Europe on July 21st — TA1BM, TA1PB, and YM7TEN/B.

The erroneous story said the revocation information had come from TRAC, but gave a URL belonging to an altogether unrelated organization with a similar URL. The same false story included a concocted "warning" to radio amateurs attributed to President Recep Tayyip Erdoğan.

TRAC the IARU member society has not been closed, nor has its website been blocked or shut down.

The initial reports claimed that the government had revoked 3213 Amateur Radio licenses, and that all transmissions were banned. The site that originally posted this claim has since removed the reports from their site and issued an apology for disseminating false information. They now report that only amateurs in Istanbul City may have been "interdicted" from transmitting for a few days following the coup. — multiple sources

The ARRL Board of Directors **voted** at their July meeting to **approve** a new, "one-time, non-endorsable DXCC Award to be offered for contacts made from vehicles — the **Mobile DXCC Award**." They also voted to make an optional paper certificate for Honor Roll available, in addition to an endorsement sticker for their DXCC certificate — ARRL

KCØW is QRV as **T2COW** through 18 August, CW only, 160—6. QSL direct or via ClubLog — he does not use LotW — KCØW

F51XR is QRV as **TZ5XR** through February 2017. Activity on various HF bands, CW & SSB. QSL via F5MXH — KB8NW

Multiple operators will be QRV as **DJØDX** from Market Reef EU-053 11—16 August, 80—6, CW SSB & RTTY. They will be active during the WAE CW Contest. QSL via DI3DXX — DL3DXX

Members of the Ukrainian DX Team will be QRV as **5H1XX** from Zanzibar Island (AF-032). 13-22 August. Activity will be on various bands and modes. QSL via MØURX -- KB8NW

QSL Routes

5P1W via OZ1HYI -- DBØSDX	P4ØXM via DL3XM -- DL3XM
6Y1LZ via K1LZ -- WA8JOC	PX8K via PY8WW -- DBØSDX
9G5GH via EA5ZD -- LU2DKN	R34ØLT via RM8L -- DBØSDX
9I4ØZ via JA1NKC -- KØDEQ	R66IOTA via UAØLCZ -- DBØSDX
9N7NH via JAØJHQ -- JA1HGY	R8ØBSR via RC3M -- DBØSDX
A31MM via EA5GL -- JA1HGY	R945A via UA9AB -- DBØSDX
BOØK via BV2KI -- W4QNW	ST2AC via ST2M — ST2M
CN2CO via UA2FM -- LU2DKN	SV8/HGØR via HAØNAR -- DBØSDX
E44YL via IK2CKR -- JA1HGY	SW9AA via LZ1PM -- DBØSDX
EO9ØWU via UW1WU -- DBØSDX	TK5UX via F5MUX — KB8NW
HFØF via SP9BRP -- DBØSDX	V44KA via W5TFW -- W5TFW
OE1A via OE3KAB -- OE3KAB	VC2Q via VA2QA -- DBØSDX
OJØB via OH2BH -- DBØSDX	VK9OL via N6NO -- JA1HGY
OJØW via OH3WS -- DBØSDX	XX9TGM via PG5M -- AA5AM

Thanks to the NJDXA DX News Reflector, the DX-QSL Reflector, 425 DX News, OPDX News, DX Coffee, DX World.Net, ICPO Bulletin, & ARRL DX Bulletin for our **DX News** information. Thanks also to the ARRL DXCC Desk, & Bernie McClenny W3UR / The Daily DX for confirmations & additional information.



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, INC.**

HAM RADIO INSURANCE ASSOCIATES, INC.

P.O. Box 201

Canonsburg, PA 15317-0201

Toll-Free 1-800-545-8881

Fax: (412) 746-5944

bill.hill@hamradioinsurance.com

"All-Risk" Amateur Radio Equipment Insurance Plan for:

Radio Equipment	Computer Equipment
Antennas Rotors & Towers	Computer Media & Software
Mechanical Breakdown & Electrical Damage Coverage	



Antenna Zoning or PRB-1 Issues?

Contact: **Michael S. Lazaroff K3AIR, Attorney at Law**

The Cingolani Building

300 North McKean Street, Butler PA 16001

Phone: 724-283-0653

The **WASHRag** Masthead is courtesy of Jeff Murray K1NSS creator of DASHToons & Dash the Dog Faced Ham!!

Find the online cartoons and stories of Dash the Dogfaced Ham & more at www.dashtoons.com !

Shop for Dash items at his online store on Café Press, www.cafepress.com/shopdash



The **Copenhagen Suborbitals** *Nexø* I rocket **launched** on July 23rd used a 1240 MHz digital Amateur Radio television (DATV) downlink, a 432 MHz command uplink, and 144 MHz Automatic Packet Reporting System (APRS).

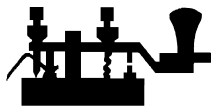
Copenhagen Suborbitals said the rocket is the next step toward flying an amateur astronaut into space. Standing 5.6 meters tall, it is the not-for-profit's first fully guided and liquid-fuelled rocket. Launched from a sailing launch platform in the Baltic Sea east of Denmark, the target attained an altitude of from 6 to 10 kilometers before landing back in the sea by parachute.

In the coming years the systems and technology tested on *Nexø* I will be used to build the big *Spica* rocket and space capsule. APRS was used to report the location of the maritime vessels participating in mission operations.

The **position reports** appeared in real time (OZ9VST-12 and OZ9SPT-12).



Silent Keys



Bill "Chilly Billy" Cardille, Pittsburgh PA, 87, July 21st

If you've downloaded the **WASHRag** from the N3SH web site, or picked up a copy from a friend... you can sign up to have the PDF copy sent directly to your email. You **do NOT** have to be a member of **WASH**!

Just send an email to wa3sh-subscribe@yahoogroups.com and the automation should take care of the rest!

FCC FCC News

Courtesy of the American Radio Relay League

Newington, CT, July 25th, 2016 — The FCC has issued a *Notice of Violation (NoV)* to a California Amateur Radio licensee, alleging that he caused willful and malicious interference, transmitted music, and failed to identify properly.

The FCC Enforcement Bureau said in the *Notice*, issued on July 13th, to Philip J. Beaudet N6PJB, of Burney, that agents from the San Francisco, California, and Portland, Oregon, offices observed the violations on four occasions in August and October 2015.

A General class licensee, Beaudet formerly held the call sign WD6FGE.

Agents responding to an interference complaint used direction-finding techniques to pin down the source of an interfering signal on 3908 kHz to Beaudet's residence. The FCC agents also observed and recorded transmissions of music on 3908 kHz from Beaudet's amateur station. They further said that while they were monitoring and recording, the station's assigned call sign was not transmitted at the end of each communication.

The Enforcement Bureau said the *Notice* does not preclude it from taking further action, if warranted, including issuing a *Notice of Apparent Liability for Forfeiture* with respect to the cited violations.

The Bureau requested that Beaudet submit additional information in writing within 20 days "concerning the violations and any remedial actions taken" His response, in part, "must fully explain each violation, including all relevant surrounding facts and circumstances."

The FCC has fined a Georgia radio amateur \$1000 for failing to properly identify. A Forfeiture Order issued to David J. Tolassi W4BHV, of Ringgold, GA, was released on July 29th.

The FCC had proposed the fine 1 year ago in a Notice of Apparent Liability for Forfeiture (NAL), noting that Tolassi had been warned the previous summer about not following Part 97 ID rules. The FCC said at the time that Tolassi's "deliberate disregard" of the earlier warning warranted the proposed penalty that it now has reaffirmed and assessed.

"Failure to transmit call sign information undermines the purpose of the Amateur Radio Service by preventing licensed users from identifying a transmission's source," the FCC Enforcement Bureau Forfeiture Order said.

The FCC said Tolassi did not deny that he transmitted on 14.313 MHz on the date in question, but argued that his comments were within the 10-minute window mandated by the rules. The FCC disagreed, however, noting that Tolassi never identified during 15 minutes of transmissions that agents had monitored.

The FCC turned away Tolassi's request to cancel the NAL and substitute a Warning Letter, asserting that the FCC has issued multiple warnings before imposing fines in similar cases. The FCC countered that Tolassi was not being treated any differently than other licensees have been. "Considering the entire record and the factors discussed below, we find no reason to cancel, withdraw or reduce the proposed penalty," the Forfeiture Order said.

As the July 2015 NAL recounted, FCC agents used direction-finding techniques to pin down the source of a signal on 14.313 MHz to Tolassi's residence. "The agents monitored and recorded transmissions during which Mr Tolassi failed to transmit his assigned call sign," the FCC said. "The agents interviewed Mr Tolassi later that evening, and, while he admitted operating that evening, he denied making the unidentified transmissions." Nonetheless, the FCC determined that Tolassi "apparently repeatedly violated Section 97.119(a)" of the rules, and it reaffirmed that conclusion in the Forfeiture Order released on July 29th.

Tolassi has a history with the Enforcement Bureau. In 2005, the Commission warned Tolassi, then WA1BHV and living in Vermont, that he risked a substantial fine if he continued to violate the conditions of his 2004 license renewal. After a series of "enforcement issues" relating to the operation of KB1EVE, his call sign at the time, the FCC had renewed Tolassi's General class ticket on the condition that he refrain from 20 meter voice operation for 3 years. The FCC had referred Tolassi's renewal application to the Enforcement Bureau for review the previous year, after then-FCC Special Counsel Riley Hollingsworth alleged that Tolassi had engaged in inappropriate on-the-air behavior.

Tolassi has 30 days to pay the fine.

Has Roadway found the tower yet?

Amateur Electronic Supply (AES) Closing

American Radio Relay League

Newington, CT July 7th, 2016 – Amateur Electronic Supply ([AES](#)) will close its doors at the end of July after 59 years in business. No reason has been given for the decision to close the business. AES has been a premier player among Amateur Radio equipment retailers for decades, as well as a major presence at Dayton Hamvention® and other events. Various media outlets were informed of the closing in a brief e-mail message on July 6th, but word of the closing has not yet appeared on the retailer's website or Facebook page.



"It's with great sadness that I have to tell you that Amateur Electronic Supply (AES) will cease operations at the end of this month," AES National Sales Manager Tom Pachner, W9TJP, said in an e-mail. An employee at the Milwaukee headquarters store, who did not wish to be identified, confirmed that the message was legitimate. It's believed that the AES staff was notified before the July 4th holiday weekend. In addition to the Milwaukee store, AES operates outlets in Cleveland (Wickliffe), Las Vegas, and Orlando.

Fond-du-Lac, Wisconsin, native Terry Serman W9DIA (SK), [founded AES](#) in 1957 when he was just 18, after getting into the radio-TV business by working in his father's TV and electronics parts store. On January 1, 1998, ownership of AES shifted to Amateur Electronic Supply LLC, headed by Phil Majerus, a prominent Wisconsin businessman. Serman died the following year at the age of 60, after a period of ill health.

For many years, the public face of AES was its Executive Vice President Ray Grenier K9KHW, who oversaw marketing and advertising for the retailer from 1964 until his retirement in 2013. Grenier nearly singlehandedly produced the famous AES catalog, as well as magazine ads. For about 20 years, he also organized the well-received AES Superfest, a promotional effort begun in 1995 that grew into a hamfest. In April, the AES Superfest hosted the 2016 ARRL Wisconsin Section Convention.

Many radio amateurs reacted to the news on various online forums, expressing surprise, sadness, and dismay, and saying they would miss AES. A few reminisced about having bought their first radios from AES.

Ham Radio Outlet To Hire AES Employees, Reopen AES Milwaukee as an HRO Superstore

American Radio Relay League

Newington, CT July 12th, 2016 — Ham Radio Outlet ([HRO](#)) has announced plans to hire an unspecified number of Amateur Electronic Supply ([AES](#)) employees, when AES shuts down its four locations in late July. In addition, the current AES Headquarters store in Milwaukee will become HRO's newest location later this summer, following renovation. On July 1, AES announced that it was going out of business and ending retail operations at its Milwaukee, Las Vegas, Cleveland, and Orlando locations. With the approval of AES management, HRO senior managers visited each AES location to interview staffers in hopes of "acquiring some of the Amateur Radio retail employee talent in each of the current AES locations," an HRO [news release](#) said.



"Together with this interview process, HRO examined what it would take to perhaps acquire one or more of the AES store locations. At the time of these interviews, many opportunities were explored with current AES senior management," the release continued. "We are very excited to announce that HRO was successful in providing offers of employment to a number of soon-to-be-former AES employees, and that to some, we have offered positions that involve HRO-sponsored and funded relocation.

HRO announced that once AES shuts its Milwaukee location at 5710 W Good Hope Road on July 28, Ham Radio Outlet will undertake an extensive remodeling project to create a new HRO Milwaukee store at the same site, which will open at the end of August.

"It is with great pleasure that we are able to continue Terry Serman and Phil Majerus' legacy of providing a fantastic Amateur Radio store in Milwaukee, Wisconsin," HRO President Robert Ferrero, W6KR. "It is our immediate goal to have the largest, most well-stocked Amateur Radio retail store in North America and perhaps even the world." HRO National Sales Manager Steve Gilmore, W4SHG, said the Milwaukee location will be "a showplace that all must come see!"

After AES closes on July 28, all former AES locations' direct and toll-free telephone numbers will be redirected to the closest HRO location, and the AES website will be directed to HRO's website.

A family-owned business, HRO is the world's largest Amateur Radio dealership, with locations from New England to the West Coast.

End-Fed Antennas and Compromises

Glen Roberts KE7FD

Almost every antenna, with very few exceptions, has compromises. If you're a commercial or a VOA station then the antennas are probably near perfect. Having said that, we choose the best antenna for our situation.

I will not likely be able to put up another full-wave 80 m "cloud burner" because my lot and the power lines are not compatible (but a small subroutine devoted to working out the details for one keeps running in the back of my little brain). Loops while in their purest form are not expected to play well beyond a few hundred miles at most, in reality manage to rack up plenty of DXCC awards.

Which brings us to the very compromised but versatile end fed. Ideally we would have perfectly resonant antennas at the optimum height FOR EVERY FREQUENCY we use, with feedlines optimized such that they would not radiate and looked like perfect 50ohms from either end. After all we do want to have the maximum power transfer from the radio delivered to the antenna. HA! Where's the challenge in that, albeit probably impossible for most of us anyway? Calculate the halfwave resonator for a tone in the audio spectrum. We're talking about a HUGE speaker even at the highest audible tone. Yet, some folks routinely bust their eardrums using comparatively puny speakers. How? Setting aside a lot of techno babble, I'll just say, it works out very well, thank you very much all you ear bleeders.

Well, end-fed antennas work pretty much the same way. They're not resonant so we have to use some form of matching technique at the feedline to keep our radios from bursting into flames when calling CQ, shut-down circuits notwithstanding. That chunk of wire out there really does radiate even though it's not resonant. It's kicking and screaming the whole time we transmit but that matching device (unun) literally takes the heat so that our radios tuner only sees a minor mismatch that it can easily handle. Even when running QRP power levels an unun rated at much higher power should be used so that core saturation and overheating don't reach their tipping point for that use.

So, end fed antennas like any other have their compromises but they still work as long as they're done right.

So while the weather is still devoid of the cold fluffy stuff, build or buy an end fed antenna, and put it on the air. Even better, take one for a ride, a hike or to a park bench. They're very portable.

Skyview Radio Society Swap'n'Shop

Sunday, August 28th, 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

Admission \$5

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



Uniontown ARC GabFest 67th Annual Hamfest

Saturday, September 3rd, 2016, 8:00 AM—1:00 PM

Setup Time at 6 AM for Vendors & Tailgaters

W3PIE Clubhouse, 433 Old Pittsburgh Road (just off State Route 51 & US 119 or State Route 43), 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



Butler County ARA Swapfest 2016

Sunday, September 11th, 2016, 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 2016

Sunday, November 6th, 2016, 8:00 AM—3:00 PM

Vendors Setup starting at 6 AM

Washington County Fairgrounds

2151 North Main Street, Washington, PA 15301

Talk-in on 146.790 PL 131.8

Admission \$5

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





WASHfest 2017

The South Hills Hamfest — Now in our **TWENTY SECOND** big year!

Sponsored by the WIRELESS ASSOCIATION OF SOUTH HILLS AMATEUR RADIO CLUB, INC.

Sunday, February 26th, 2017

8:00 AM until 3:00 PM Rain or Shine (or Snow!)

Home Economics Building, South Park

3735 Buffalo Drive, South Park Township, PA 15129

Talk-In on 146.955(-) and 443.650(+) 131.8 PL

Donation \$5



(800) 545-8881

Breakfast & Lunch will be available!



*FREE Coffee for the entire Hamfest
courtesy of HAM RADIO INSURANCE ASSOCIATES
of Canonsburg, PA*

**NEW
LOCATION!**

Due to tentatively scheduled major renovations,
we regret that the Castle Shannon VFD
Memorial Hall will not be available to us in 2017

**NEW
LOCATION!**

MAIN PRIZES TBA — You've Got to Play to WIN!

Additional Hourly Door Prizes! Special Black Box Prize (Separate Drawing)!

Main Prize tickets are \$2.00 each, 3 for \$5.00, 7 for \$10, 15 for \$20

All Prizes Subject to last-minute changes

For Table Reservations, or More Information, Please Contact:

Carol Danko KB3GMN at (412) 884-1466 n3sbf@comcast.net

E-mail us directly at washarc@yahoo.com Check out our website too! www.n3sh.org

Please Note: Early Table Reservations must be paid in full on or before January 31st, 2017. Reservations received after February 1st, 2017 must include payment in full. Reserve now... we have sold out in advance seven years running!

Hamfest Table Reservation Form—Please PRINT LEGIBLY ALL INFORMATION

Name: _____ Email: _____

Address: _____ Phone: () _____ - _____

City: _____ State: _____ Zip: _____

Call Sign: _____

Tables WITH Electricity: _____ X \$15.00 = _____

Tables WITHOUT Electricity: _____ X \$12.00 = _____

5 Or More Tables w/o: _____ X \$10.00 = _____

Please make all checks payable to:
WIRELESS ASSOCIATION OF SOUTH HILLS
PLEASE MAIL RESERVATION TO:
WASHFEST 2017
c/o CAROL DANKO KB3GMN
4246 Seton Drive
Pittsburgh, PA 15227-1244

We reserve the right to resell any tables not occupied by
8 AM, unless prior arrangements have been made!



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



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 or go to www.dailydx.com

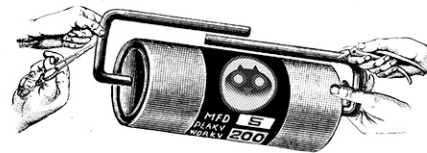
The Daily DX, 3025 Hobbs Road,
Glenwood, MD 21738 Phone: 301-854-5650



Arhhh!
What Mightst We Draw For Ye, Matey?



HANDMADE BY GNOMES.



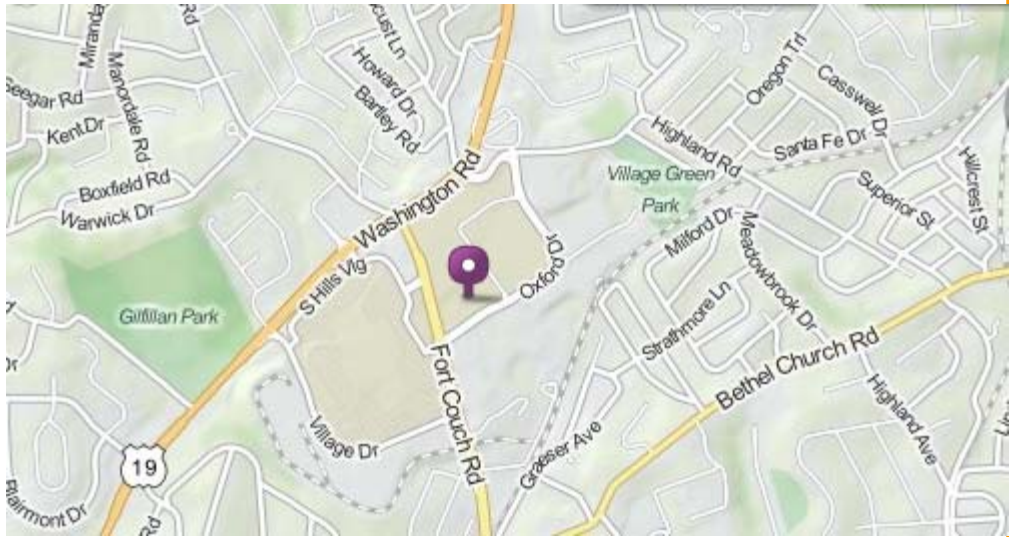
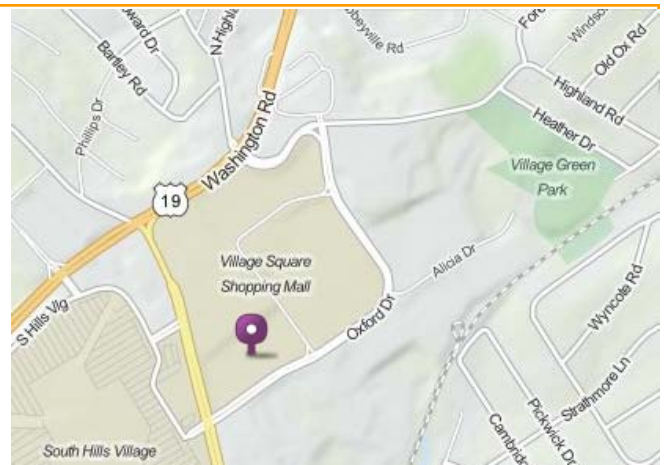
2016 WASH Meeting

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
www.washarc.org

