



WASHRAGTM



VOLUME 18 ISSUE 09
SEPTEMBER 2016

Wireless Association of South Hills



N3SH WA3SH NP2SH/B

www.n3sh.org www.washarc.org



WASHRAG™



VOLUME 18 ISSUE 09

SEPTEMBER 2016

Next Monthly Meeting: Thursday, September 1st, 2016

The next meeting of the **WIRELESS ASSOCIATION OF SOUTH HILLS, INC.** will be on **Thursday, September 1st 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.

Guest speaker Joe Shupienis W3BC. Meeting topics will include Pa QSO, 501(c)(3) progress, updating the by-laws, End-of-Summer picnic, JOTA, other club plans for 2016 & 2017, and more. See you there!

Cover Photo: If you recognized what this is and what it's for, you've probably been around a while. But, if you missed out on the hey-day of the thermionic glass or metal enclosed valve... well, ask someone who has been around a while!

Photo 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 2017 Coordinator	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.

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Editor & Publisher: Ron Notarius W3WN

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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 dot 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



There will be a speaker at the meeting this month. His name is Joe Shupienis W3BC. We will also be discussing the upcoming Pennsylvania QSO Party.

Rick may have a few words about JOTA. This will take place the weekend after PA QSO.

I guess this means fall is around the corner. Rich and I attended Skyview Hamfest on Sunday. It was extremely hot but a great turn-out. It was nice to see every one.

See you at the meeting.

— 73, Carol Danko KB3GMN

*President, Wireless Association of South Hills, Inc.
 N3SH / WA3SH / NP2SH/b*

Fuji-Oscar 29
has just
celebrated
it's 20th
birthday.

Launched on
August 17th,
1966, FO-29
remains the
most widely
used linear
transponder
satellite, and
an ideal
starting point
for beginners.

FO-29 is also
known as
JAS-2 and
Fuji-3. It
operates as a
Mode J
Linear
Transponder.
— courtesy of
AMSAT News
Service

It was a bright summer morning, on Saturday, August 27th, as the members of **the WASH Breakfast Gang** once again gathered at **Suzie B's**, 950 South Central Avenue (Route 910 at the intersection of Route 519 at US 19) in Canonsburg. And that's about all Ye Editor can tell you about this month's gathering, as he and the Boss were enroute to Returning Student Move-In Day at Point Park University with Little Miss Field Day. A last-minute scheduling change meant missing the gang. Sorry about that!

Don't forget that our next gathering of the Gang will be on Saturday, September 24th, 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!) See you there?

Congratulations are in order to the **Steel City ARC W3KWH**, who are celebrating their **75th Anniversary**. And thanks on behalf of all members of the **WIRELESS ASSOCIATION** who were so graciously welcomed during their annual Open House & Corn Roast. (gee, didn't the cooks look kind of familiar?) on August 21st. Ran into a lot of old friends, from SCARC, Skyview, WACOM, BCARA and other clubs as well. A good time was had by all.

For those who didn't hear, the **NPOTA operation planned for August 17th** was postponed due to weather conditions. No word yet on when it will be rescheduled. Well, sorry to say, these things do happen...

With any luck, you're getting this before the start of September. Which means we're roughly 6 weeks out from the annual **Pennsylvania QSO Party**. As has been noted, we have two groups from the **WIRELESS ASSOCIATION** in the planning stages (Fayette County, and Clarion County) with another group possibly going out as well (Montour County). Those of you who've operated the contest in past years know how much fun it can be; if you haven't had the chance before, there's no time like this year! More details on where the groups stand will be available at the September meeting. (Ye Editor is please to add that this year's Family Weekend at PPU is NOT PaQP weekend, and he really hopes to be out with one of the groups this year!)

There are only a few more South Western Pennsylvania hamfests left before the end of the year (Uniontown, Butler, and WACOM are all we know about — see Page 13 or the appropriate club websites for details). THAT means that the winter hiatus isn't far off, and THAT means that before you know it, two big **WIRELESS ASSOCIATION** events will be coming up... the annual **2 Meter Simplex Contest** in January, and **WASHFEST 2017** in February. Seems like a long ways off, right? Well, time has a way of creeping up on you, and both of these will be here before you know it. Now is the time to start your plans — and now is the time to take advantage of the remaining good weather and work on your antennas and coax and other station accessories. (Even though antennas work best when you put them up in the dark, cold, rain, snow, ice, or combinations thereof...)

Check into **WASHNET** lately? Yeah, we know, it's still summer for most of us, and Monday early evenings, it's just too nice out (most nights) to go down to the shack for a few minutes. Even so, the net has really never fully recovered from loss of activity during our repeater woes a few years back. It would be a shame to lose a simple method of communications, but if it has outlived it's purpose... but has it? More discussion on the net at the next meeting. Still, if you think the net has value, try and get down to the shack at net time and chime in, if you can. (And yes, Ye Editor is guilty of this as well)

WASHNet NCS Schedule

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
09/26/2016	Bob AB3ED	11/21/2016	Digital Net
10/03/2016	Carol KB3GMN	11/28/2016	Larry K3VX
10/10/2016	Chuck KC3ELA	12/05/2016	Mike WA3PYU
10/17/2016	Digital Net	12/12/2016	Rick KB3IAC
10/24/2016	Dave N3DFK	12/19/2016	Digital Net

Indicates Swap Net After the Regular Net

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

Minutes, August 4th Meeting

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

Carol KB3GMN called the meeting to order at 19:06 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 Bill W3WH, second by Larry K3VX, passed unanimously.

Committee reports:

Treasurer (N3RDV): A balance on the bank account was read & accepted.
Motion by Glen KE7FD to allocate \$90 for 2017 Field Day site rental, second by Frank N3FB. Motion carried.

Secretary (KB3ERQ): No Report

VE (W3WN): 6 candidates present at the July 21st test session. 5 received new Technician license, one upgraded to Amateur Extra class (applause). Next test session will be at WPXI on October 20th. VE's needed as always. Thanks again to WPXI for the use of their community room for testing this year, & to N3FB for making the arrangements.

Repeaters (N3FB): 443.650 is having some issues with the voting receiver system. System test for Saturday suspended due to Frank's encounter with Sir Isaac Newton. Scenery Hill receive site is temporarily down. Frank needs to arrange access to work on it.

WASHNet (KC3ELA): No report. Carol asked if we should discontinue the weekly need, since we are down to only 3 or 4 people. Discussion on whether we should postpone the net for the duration of Summer, or go back to Sunday night. Issue placed on hold until September meeting. Multiple members expressed that Sunday was a better time for them personally.

N3SH.ORG (N3NWR): No report

Contests (K3VX): Upcoming events in the newsletter. Two groups from the Club going out for Pa QSO — one to Heritage in Fayette (see KB3IAC), one to Clarion (N3SBF/KB3GMN). Randy N3ZK and Frank N3FB are looking into operating from Montour County.

Larry investigated going to Friendship Hill for an NPOTA operation, on the Mon River. The site has a restored mansion & picnic grove. Larry and Bill planning to operate on August 17th, see them if you are interested

Field Day 2017 (KB3IAC/W3WH): Babcock Grove has been secured for the Field Day 2017.

Public Service (N3IDH): Rick KB3IAC is working on JOTA for this year. This is a great opportunity to help keep Amateur Radio alive for the next generation! Please think about how you can be involved!

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

Newsletter (W3WN): Out.

President (KB3GMN): Reminder that Steel City ARC is having their annual open house & corn roast, as part of their 75th Anniversary on August 21st. Picnic starts at 1 PM. If you are coming, please let Carol know. Bring a chair!

Old Business: Frank N3FB discussed the Band Pass Filter issue on behalf of Jim WB4GCS.

Jim swept them with a network analyzer and got a baseline of set measurements. 3 filters were in need of work. Jim has had one repaired, and ordered some more caps for them. The 40 meter filter was sent out for a repair estimate.

Jim also had questions about the cable reels we've had stored, and put them on the analyzer as well.

Frank recommended putting new ends on all the cables, as well as colored tagged ends, and making the cable lengths a standard size, since we never seem to use the full lengths for Field Day and other club operations.

Following the discussion, motion by Ron W3WN to budget \$75 to cover the costs of new connectors. Second by Bill W3WH. Passed unanimously.

New Business: None

Good of the Order: Glen KE7FD mentioned that Ham-Nation did a show about the new location for Dayton Hamvention. [*]

Motion to Adjourn by Bill W3WH., second by Larry K3VX and carried unanimously.

Meeting adjourned at 19:48

[*] Secretary's Note: see <https://twit.tv/shows/ham-nation>. There are several ways to watch the program besides sitting in front of your computer; on your mobile device, on a TV with Roku, etc. E-Mail me with any questions — Ben Williams KB3ERQ

WASH Spotlight: KØLIN



Colin KØLIN, watching a video as he is operating one of the HF positions at the Steel City ARC W3KWH, during their annual Corn Roast & Open House on August 21st.

More pictures on Page 8

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@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	N3SBF	WASH FL	WASH SC	Silent Keys
AA3GM	KC3DOF	NU3Q	KA3UPY/M	N3RNX	
AB3NM	KC3ELA	W3LE	W4ZE	WASH TN	AB3KA
AE3DL	KC3HIK	W3VFA	WASH NE	K3OL	K3EED
K3HCR	KC3HNU	W3WH	NØPEU	KE3XB	K3LIE
K3SGT	KC4WTT	W3WN	WASH OR	N3YPB	KA3NMG
K3VX	KE7FD	W4CKR	NØVLR	WASH TX	KB3ENX
KA3VXM	KI5ZT	WA3PYU	NØWPV	NB3C	KB3FNM
KB3DCO	N1NCZ	WA3VSS	KB3NVL	K3LGM	KB3FQT
KB3GMN	N3DFK	WB4GCS	KB3NVM	KB3IJX	KB3JHQ
KB3GMU	N3FB	WO3Z	WASH OH	Jane Wagner	N3CZZ
KB3IAC	N3IDH		N8DPW	WASH VI	N3FZ
KB3IVX	N3KFD			NP2JF	N3HKQ
KB3JHR	N3RDV				N3KEH
KB3ORO	N3RHT				N3OBD

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

Through August 30th, 2016
List compiled by
Mark Stabryla N3RDV, Vice President/Treasurer

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

2016 / 17 WASH Upcoming Events Calendar

Club Meetings & Other Significant Events — Subject to Change

September 1 st	<i>WASH</i> 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	<i>WASH</i> 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	<i>WASH</i> 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	<i>WASH</i> Meeting & 2017 Elections	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	<i>WASH</i> 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 17 th – 18 th	Stew Perry Topband Challenge	http://www.kkn.net/stew/
December 31 st	Straight Key Night	http://www.arrl.org
January 27 th - 29 th	CQ 160 Meter Contest CW	http://www.cq160.com
February 18 th - 19 th	ARRL DX Contest CW	http://www.arrl.org
February 26 th	<i>WASHFest 2017</i>	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 August Meeting

Photos Courtesy of and © Copyright 2016 Ron Notarius W3WN



KB3GMU, N3FB



WA3PYU, KA3VXM



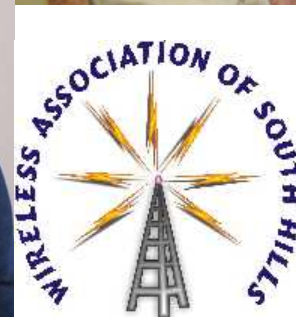
K3SGT



KE7FD



WO3Z, W3WH



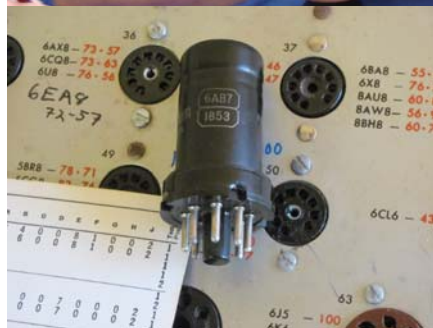
KB3ERQ



K3VX, N3SBF, WA3PYU



N3SBF



KB3GMU

Three Companies Agree to Plead Guilty to Price Fixing on Electrolytic Capacitors

American Radio Relay League

Newington, CT, August 23rd 2016 — The US Department of Justice announced this week that three companies have agreed to plead guilty for their roles in a conspiracy to fix prices for electrolytic capacitors sold to customers in the US and elsewhere. The companies are Rubycon Corporation, Elna Co Ltd, and Holy Stone Holdings Co Ltd.

"The Antitrust Division has now charged five companies and one individual for their participation in this international price-fixing conspiracy," Deputy Assistant Attorney General Brent Snyder of the Justice Department's Antitrust Division, said in an August 23 Justice Department [news release](#). "The electrolytic capacitors conspiracy affected millions of American consumers who use electronic devices containing capacitors every day."

The division filed one-count felony charges against each of the three companies in US District Court in San Francisco. In addition to pleading guilty to the charges against them, each company has agreed to pay a criminal fine and to cooperate with the Division's ongoing investigation. The plea agreements are subject to court approval.

NEC TOKIN Corp and Hitachi Chemical Co Ltd already pleaded guilty earlier to participating in the same worldwide conspiracy. NEC TOKIN was sentenced to pay a \$13.8 million fine in January, while a \$3.8 million fine was levied on Hitachi Chemical in June. In March of 2015, a grand jury indicted Takuro Isawa, a former Global Sales general manager for one of the capacitor manufacturers, for his alleged participation in the conspiracy.

This week's charges resulted from an ongoing federal investigation by the Antitrust Division's San Francisco Office and the FBI's San Francisco Field Office into price fixing, bid rigging, and other anticompetitive conduct in the capacitor industry. Anyone with information on price fixing, bid rigging or other anticompetitive conduct related to the capacitors industry should contact the Antitrust Division's [Citizen Complaint Center](#), (888) 647-3258, or call the FBI tip line, (415) 553-7400.

The Justice Department released court documents on [Elna](#), [Holy Stone](#), and [Rubycon](#).



Ten Tec To Resume Production of Amateur Gear

Lloyd Price N2KPC courtesy of the Ten Tec E-Mail Reflector



Mount Holly, NJ, August 28th 2016 — I spoke to Mike Dishop N8WFF today. The OMNI 7 should be available October 31st, 2016 or earlier in October.

The production run will be a little over one hundred OMNI 7's. When these are sold the Eagles will fly again.

The Model 712 USB Data Units should be coming soon. First run of 100. at \$ 89.00. at my request because so my of you have asked for them. They work great, no RF and plug them in and your good to go for the TEN-TEC 80 Meter PSK-31 Nets.

Prices on the OMNI 7 to be announce on the TEN-TEC Web Site.

TEN-TEC is producing Military Radios right now to get things back on track.

All good and looking forward to seeing everybody at the TEN-TEC Booths.

As always I get the ok from Mike to post this information.

That is all the info that I have for now so stay tuned on the TEN-TEC_Radio_Net Yahoo Group bought to you by John K3UR Group Owner and Net Manager, Thank You John.

One thing at a time and time it will take, but things are coming along at TEN-TEC.



FCC Levies \$25,000 Fine on California Amateur For Deliberate Interference

American Radio Relay League

Washington, DC, August 3rd, 2016 — The FCC has imposed a \$25,000 fine on William F. Crowell W6WBJ (ex-N6AYJ), of Diamond Spring, California, for intentionally interfering with the transmissions of other radio amateurs and transmitting prohibited communications, including music. The penalty represents the full amount proposed in a December 2015 *Notice of Apparent Liability for Forfeiture* ([NAL](#)), and, the FCC said in a lengthy August 2 *Forfeiture Order* ([FO](#)), "is based on the full base forfeiture amount as well as an upward adjustment reflecting Mr Crowell's decision to continue his misconduct after being warned that his actions violated the Communications Act and the Commission's rules."

"Mr Crowell does not deny that he made the transmissions that prompted the NAL in this proceeding, but argues, in large part, that those transmissions were protected by the First Amendment of the *Constitution*," the *Forfeiture Order* said. In his responses to the NAL, Crowell not only argued that the enforcement action was directed at the content of his transmissions, which were protected by the *Constitution*, but were justified on the basis of other operators' actions. "Alternatively, Mr Crowell maintains that someone else caused the interference or transmitted prohibited communications at issue in this proceeding," the FCC said.

The FCC demurred. "It is well-established that regulation of radio in general does not violate the First Amendment or [the Communications Act]," the Commission's *Forfeiture Order* said, "and courts have made clear that this conclusion applies to the Amateur Service as well."

Prompting the December 2015 NAL were complaints by members of the Western Amateur Radio Friendship Association (WARFA), which conducts nets three times a week on 75 meters. Crowell had argued that the WARFA Net monopolized the frequency and refused to let him check in.

The Enforcement Bureau recounted that its agents and the High Frequency Direction Finding (HFDF) Center monitored Crowell's transmissions during the WARFA Net on 3908 kHz on August 25 and August 27, 2015. The agents and the HFDF Center observed Crowell's Amateur Radio station "intentionally interfering with other amateur licensees by transmitting on top of other amateurs, and repeatedly interrupting amateurs using noises on the WARFA net, recordings and music, so as to not allow them to transmit on 3908 kHz," the *Forfeiture Order* said.

"Specifically, between 7:45 PM and 9:45 PM PDT, on both August 25 and August 27," the *FO* continued, "the Agents and the HFDF Center

"Seen" at the Steel City ARC 75th Anniversary Open House & Corn Roast

Photos Courtesy of and © Copyright 2016 Ron Notarius W3WN (or as noted)



"You Will Be Very Impressed" With New Venue, Hamvention Chairman Assures

American Radio Relay League

Dayton [Hamvention](#)® is moving on after 52 years at Hara Arena, and 2017 preparations at the show's new venue in Xenia, Ohio, now are in full swing, two Hamvention officials [explained](#) on a recent the [Amateur Radio Roundtable](#) webcast hosted by Tom Medlin W5KUB.

Hamvention announced on August 1st that it would relocate to the [Greene County Fairgrounds](#), after HARA Arena made it known that it would close at month's end. Hamvention 2017 General Chair Ron Cramer KD8ENJ, and official spokesperson Mike Kalter W8CI, fielded questions from Medlin and callers during the hour-long August 9 show. Cramer said some members of the Amateur Radio community entertain preconceived notions about the new venue that are "far off base," and he and Kalter wanted to set the record straight.

"Change is hard for everyone, but I think this is a very good move for us," Cramer said. "You will be very impressed." Kalter echoed the sentiment. "We want to start out great and get awesome," he said. Kalter said there's been a lot of second-guessing, but that "a lot of overriding factors" and year-long search led to the selection of Greene County Fairgrounds.

Kalter assured those planning to attend Hamvention that Fairgrounds buildings — particularly those used for showing livestock during the county fair — are "absolutely clean" and well maintained (see attached layout map). He and Cramer expressed confidence that everyone will find plenty of available parking and room for all traditional Hamvention activities — more than may be evident at first glance. Vendors who have already visited the new site to get the lay of the land went away "excited," they said.

At this point, no hard-and-fast decisions have been made as to how Hamvention will put the available buildings and space to use next spring, but Cramer and Kalter said the Fairgrounds staff has been especially helpful. "We're all working together now to make this happen," Kalter said, and that Hamvention officials remain open to questions and suggestions.

Cramer took time to quash one misconception about Hara Arena. "Even though they had air conditioning," he said, "air conditioning was never used there. The doors were open, and they did not want to turn on the air conditioning unless the doors were closed. So, I don't think air conditioning was used at all — at least in the last 10 years."

Some air conditioned space already available at the new venue may be suitable for such activities as forums, and the Fairgrounds is looking to upgrade existing ventilation systems in non-air conditioned buildings. "We're looking at the possibility of air conditioned 'chalets'" for forums, Kalter said.

The prime area under consideration for the popular outdoor flea market is inside the racetrack oval, they said, and additional adjacent space is available, if it's needed.

The venue will have wireless Internet coverage. "We've already moved some of the equipment out of Hara, and we think it will do a good job there," Cramer said. Kalter added that the Fairgrounds staff is working on upgrading the Internet "pipe" to the venue.

As for the admission price, "We're still working on that," Kalter said. "We have not made a decision. We may leave it at the same price or slightly more than that, but no great increase." Tickets this year were \$20 in advance and \$25 at the gate for all 3 days.

Cramer and Kalter said Hamvention anticipates being ready to start selling tickets and vendor spaces by November — and perhaps earlier.

Kalter stressed that the sponsoring Dayton Amateur Radio Association ([DARA](#)) puts "an awful lot back into ham radio in donations," all raised entirely through Hamvention.

"We need your help. We need your support," Kalter said. "Hamvention needs to move on, and we intend to make it happen, with everybody's help."

HAARP To Reopen in 2017 Under New Ownership

American Radio Relay League

Alaska's High-Frequency Active Auroral Research Program (HAARP) facility will reopen in 2017. The sprawling facility now is under the ownership of the University of Alaska Fairbanks (UAF), and the UAF Geophysical Institute is preparing HAARP for a new sponsored research campaign that's set to begin early next year, UAF Researcher Chris Fallen KL3WX, told ARRL.

"This involves, for example, reinstalling the vacuum tubes in each of the 10 kW amplifiers — eventually 360 in total — that were removed by the US Air Force [the facility's former owner] for warm storage in the main facility," Fallen said. He later clarified that's just one-half of the 720 tubes required to equip all of HAARP's transmitters. "For the first campaign we will only be bringing half of the array online, as we will only have half the tubes installed," he explained. "It's a long process and we have limited resources." He noted that the transmitter shelters have been unheated since the previous campaign in the summer of 2014. "The five generators — approximately 3 MW each — have recently been tested individually and are verified operational."

Fallen said the HAARP ionosonde (DPS4D "Digisonde") will be brought back online. "Some instruments on site need to be repaired or replaced," he said. Those would include riometers and a UHF radar. "Optical instruments will be brought back. The flux-gate magnetometer is operational again."

Fallen said other researchers are planning to install instruments at the science pads. "We are still investigating models for increasing Amateur Radio involvement with HAARP, which, in addition to announcing operating schedules, can potentially include hosting one or more ham stations on or near the science pads," he said.

UAF describes HAARP as "the world's most capable high-power, high-frequency transmitter for study of the ionosphere." Built in three phases, starting in the early 1990s and continuing through 2007, at a cost of some \$300 million, HAARP over the years has inspired a wide range of conspiracy theories that became grist for late-night radio talk shows. Some have claimed that HAARP's transmitters and 30-acre antenna farm — capable of generating up to 5 GW ERP — have been used to control the weather, while others have argued that HAARP has caused earthquakes.

The FCC recently granted two Part 5 Experimental Service licenses for HAARP ionospheric research "across multiple bands." W12XFX will cover experiments in discrete parts of the HF spectrum, including 2650-2850; 3155-3400; 4438-4650; 4750-4995; 5005-5450; 5730-5950, and 7300-8100 kHz. A second Experimental license, W12XDV, covers ionospheric research between 1 and 40 MHz.

HAARP is aimed at studying the properties and behavior of the ionosphere. Operation of the research facility was transferred from the US Air Force to the University of Alaska Fairbanks last August, allowing HAARP to continue exploring ionospheric phenomena via a land-use cooperative research and development agreement.



The HAARP Antenna Field
Photo courtesy of Chris Fallen KL3WX

Aves Island YXØV On Hold

Steve Romagni W4DTA, YXØV Pilot Station

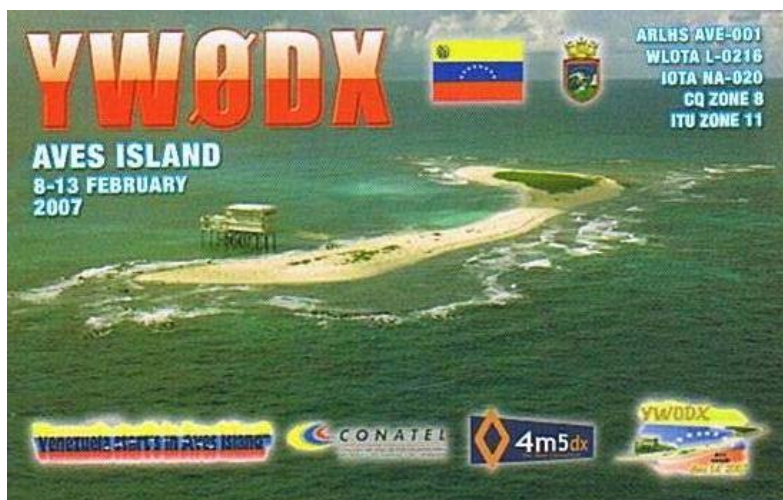
The **YXØV** DXpedition to Aves Island has been postponed, due to adverse weather conditions (tropical storms). No new dates have been announced.

A DXpedition team was set to depart on August 31st for the 17th most wanted DXCC entity.

On August 24th the Amateur Radio Association of Venezuela, Santiago de Leon de Caracas Group, announced that it had been notified by the Venezuelan Navy that the DXpedition to Aves Island — to be held in commemoration of Navy Day 2016 — “has been put on hold until further notice.”

Aves Island was last activated on February 13th, 2007, by **YWØDX**. The group had hoped to be on the air for up to 10 days as YXØV and had already begun preparations.

Aves Island is situated west of the Leeward Islands. It's only about 1200 feet long and some 150 feet wide.



Radio Amateurs in Latvia now have two new bands, following the introduction of their new Amateur Radio license on August 9th.

They now have access to a new 60 meter allocation, 5351.5—5366.5 kHz, with a maximum power output of 15 Watts EIRP.

Category “A” Latvian hams (their top level license) may now also operate on the new 630 meter band, 472—479 kHz, with a power of 1 Watt EIRP, and a transmitted signal bandwidth no greater than 800 Hz.

— courtesy of the 5 MHz Newsletter

Radio amateurs in Portugal have intensified the search for GPS Buoys that are illegally operating & intruding on 10 Meters. A recent [IARU Region 1 Monitoring System report](#) indicated that one such buoy was operating 24/7 on 28.100 MHz, using F1B RTTY.

IARU MS-R1 has also posted a [lengthy and growing list](#) of intruding driftnet fisheries buoys, transmitting CW in various parts of 10 meters.

The F1B transmissions consist of 3 second RTTY bursts (51 baud 270 Hz shift). Individual transmissions are 10 seconds apart. The cycle repeats every 5 minutes. Frequencies are between 28.000 and 28.120 MHz at 5 kHz intervals.

The group has asked radio amateurs living along the Atlantic coast to look for these transmissions and record them. Poor propagation is making it difficult to obtain additional samples. “More recordings are needed in order to get greater consistency of the decoded data and, possibly, work on an automated or semi-automated decoding solution,” said Paulo Teixeira CT2IWW. He stressed the importance of indicating date, time (UTC), frequency and mode. Recordings should be at least 10 to 20 minutes long. Recordings should be emailed to CT2IWW via his QRZ.COM address.

Meanwhile, Jose Francisco de Almeida CT4AN reported that agents from Portugal's telecoms regulator (ANACOM) and maritime police inspected 30 fishing, maritime tourism, and passenger vessels in several ports for illegal radio gear.

DX News Briefs



The [website](#) for the upcoming **3YØZ** Bouvet DXpedition, planned for early 2018, is now live. The site details the “vast DXpeditioning experience” of the team members.

3YØZ plans to be active on all available bands, using “traditional modes” along with “the very best antennas, radios, and amplifiers. The team plans to stay for as long as 3 weeks, weather permitting.

Bouvet, a sub-antarctic island in the South Atlantic ocean, is a dependency of Norway and the second most wanted DXCC entity. It was last activated during a scientific expedition over the 2007-08 winter as 3YØE.

The website can be found at <http://www.bouvetdx.org/> — *The Daily DX* courtesy of the American Radio Relay League

YT1AD, N6PSE, K3LP and UA4HOX are attempting to get permission to activate **KH1 Baker Island** in the September/October 2017 time frame. Landing requires a special USF&W Services permit. As of deadline, the organizers still haven't heard back from USF&WS — YT3W & DX World

KCØW went QRT as **YJØCOW** on August 30th. He has previously been QRV as **T2COW** and **5WØCOW**, with **T3ØCOW** and **H44COW** upcoming. Tom has teased “I'm going to attempt activating a Top 25 Most Needed Entity before starting the T3ØCOW DXpedition. It's not Central Kribati (T31). No promises. Wish me luck!” — KCØW

DL1LLL/MM (also **SA3LLL/MM**) is currently QRV from the Ice Breaker Oden in the Arctic, in the vicinity of the North Pole. He will be at sea through 20 September, as active as possible due to his workload — DL1LLL

F5PRU is presently QRV as **5U7RK** in South Niger, in his free time. He will be on the job for several more months. He is on 80—10, CW & SSB with a TS-50 and a dipole. QSL via F5PRU — F5PRU, DX World

A group of Amateurs from Spain will be QRV as **5E3A** from Morocco, 1—4 September. QSL via EA7FTR — EA7FTR

F1TMY will be QRV as **J28PJ** for a 3 to 5 year period starting 1 September. He will be QRV 160—6 meters. QSL via F1TMY — F1TMY, DX World

OH6RX and OH7WV will be QRV as **AHØK** from Tinian Island, 9—11 September. They will be QRV as time permits, as they are preparing the station for the CQ WW contests. QSL via OH6GDX — DX World

A group of Polish Amateurs from the Rebel DX Group will be QRV as **T31T** from Canton Island in Central Kiribati, starting 4 October. They will be there for 4 to 6 weeks, not just for radio activity but to volunteer any help to the local community. They say that they are not “begging for any donations up front as travelling around the Pacific is not that expensive”. They also want to be alerted to remote parts of the world that can use their help — DX World

QSL Routes

5WØBOB via VK2BOB — VK2BOB	MX1SWL via G6XOU — ISWL
7P8VA via K7TRB — K7TRB	OJØJR via OH3JR — OH2B
9XØJW via KB1ZSQ — KB1ZSQ	R1CC via DJ1ND — DJ1ND
A5A via JH1AJT — JH1AJT	ON44WAR via ON7RY — ON7RY
CEØY /LU9VEA via IK2DUW — KB8NW	PJ7AA via AA9A — AA9A
CR3W via DL5AXX — KB8NW	RT92KA via UA3AKO — W3AWU
CY9C via WA4DAN — WA4DAN	SAØA via SP6ECA — JE1TSD
D73G via HL4CEL — KB8NW	SØ1WS via EA2JG — KB8NW
EJØL via MIØBPB — KB8NW	T31T via 3Z9DX — 3Z9DX
HFØPOL via SP3HLM — W4QNW	TK9R via IK8UND — IK8UND
HR2/AJ9C via AJ9C — AJ9C	YT160TESLA via YU1MM — YU1MM
J28PJ via F1TMY — F1TMY	ZD8O via OHØXX — W4QNW
KP2M via NZ4DX — KB8NW	ZV8P via PY8WW — KB8NW

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.



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Antenna Zoning or PRB-1 Issues?

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FCC Levies Fine

continued from Page 7

observed at least a dozen instances, lasting from 30 seconds to at least 4 minutes each, of Mr Crowell intentionally transmitting on top of and repeatedly interrupting amateurs on the WARFA net."

The Enforcement Bureau concluded that Crowell "willfully and repeatedly" violated the Communications Act and FCC rules "by intentionally causing interference to other Amateur Radio operators and transmitting prohibited communications, including music." The Bureau said that after reviewing Crowell's arguments, it found no reason to cancel, withdraw, or reduce the penalty it had proposed last December.

Crowell has a long-standing relationship with the FCC Enforcement Bureau. In 2008 the FCC designated his license renewal application for [hearing](#), alleging that he had caused intentional interference, interrupted others' communications, transmitted music, and made one-way transmissions, including some containing "indecent language," the FCC said. His license, which expired in 2007, has not been renewed, but Crowell may continue to operate while his application is pending.

The ARRL will accept nominations until November 1st for the George Hart Distinguished Service Award. The award honors long-time ARRL Communications Manager George Hart W1NJM (SK), the chief developer of the National Traffic System.

Nominations should thoroughly document the nominee's lifetime activities and achievements with the ARRL Field Organization. Nominees are expected to have at least 15 years of distinguished service.

Submit nominations and related supporting material and letters of recommendation via e-mail to or USPS mail to ARRL Field Organization Team Supervisor Steve Ewald, WV1X, 225 Main St, Newington, CT 06111.

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FCC FCC News

Courtesy of the American Radio Relay League

Newington, CT, August 12th, 2016 — The FCC will accept public comments in response to a July FCC *Notice of Proposed Rule Making* ([NPRM](#)) in WT Docket 16-239 — the "Symbol Rate" proceeding — until October 11th. Reply comments — ie, comments on comments already filed — are due by November 10. The *NPRM* now has been published in *The Federal Register*, thus opening the respective 60-day and 30-day comment/reply comment windows.

In response to a 2013 ARRL *Petition for Rule Making* ([RM-11708](#)), the FCC proposed to revise the Amateur Service Part 97 rules to eliminate current baud rate limitations for data emissions, consistent with ARRL's *Petition*, but it declined to propose a bandwidth limitation for data emissions in the MF and HF bands to replace the baud rate limitations. ARRL had asked the FCC to change the Part 97 rules to delete the symbol rate limits in §97.307(f) and replace them with a maximum bandwidth for data emissions of 2.8 kHz on amateur frequencies below 29.7 MHz.

Interested parties may comment on the [NPRM](#) in WT Docket 16-239 via the FCC's Electronic Comment Filing Service ([EFCF](#)), as well as by mail.

Police in Evanston, Illinois, contacted the ARRL Lab, after an apparent interference source began plaguing wireless vehicle key fobs, cell phones, and other wireless electronics. Key fob owners found they could not open or start their vehicles remotely until their vehicles were towed at least a block away, nor were they able to call for help on their cell phones when problems occurred. The police turned to ARRL for help after striking out with the FCC, which told them it considered key fob malfunctions a problem for automakers, although the interference was affecting not just key fobs but cell phones, which are a licensed radio service. ARRL Lab EMC Specialist Mike Gruber, W1MG, believes the FCC should have paid more attention.

"This situation is indicative of what can happen as a result of insufficient FCC enforcement, especially with regard to electrical noise and noncompliant consumer devices," Gruber said.

Evanston authorities worried that a serious situation could develop if someone were unable to call 911, putting public safety at risk. They also were concerned that the RFI could be intentional and indicate some nefarious or illegal activity. Given the seriousness of this situation, Gruber contacted Central Division Director Kermit Carlson, W9XA, to ask if he could look into the matter.

On June 2, Carlson met with an Evanston police officer, her sergeant, a local business owner, and the local alderman, and he quickly confirmed that the 600 block of Dempster Avenue in Evanston was plagued with an odd RFI problem. Carlson determined that the problem prevailed along a set of eight on-street parallel parking spots in the downtown commercial district of the North Chicago suburb.

Carlson employed a Radar Engineers 240A Noise Signature Receiver and UHF Yagi antenna to survey the affected block. Since key fobs typically operate at around 315 MHz and 433 MHz, he looked on both frequencies. The survey identified several noise sources in the affected block, but in particular a strong signal in the middle of the block. The interference source turned out to be a recently replaced neon sign switching-mode power supply, which was generating a substantial signal within the on-street parking area just across the sidewalk, between 8 and 40 feet from the sign.

The problematic power supply interference also disabled Carlson's cell phone when he was within a few feet of the device. Carlson anticipated that further investigation would show that the harmful interference could disrupt licensed radio services in close proximity. The troublesome transformer was not replaced, but the building owner agreed to turn off the sign should problems arise.

Carlson called the Evanston case "a particularly alarming example of radio interference," especially since local authorities considered it a public safety matter. "This situation demonstrates the electromagnetic compatibility problems that are evolving in an atmosphere of noncompliant, unintentional RF-emitting devices," he said.

A return visit to the area with calibrated antennas and equipment capable of measuring the radiated signal strength with quasi-peak detection is planned for later this year. Since the initial visit, several other instances of unexplained key fob malfunctions have been reported in the Greater Chicago area. — *Thanks to Kermit Carlson, W9XA, and Mike Gruber, W1MG*

Has Roadway found the tower yet?

To Balun, Or Not To Balun, That is The Question

Glen Roberts KE7FD

OK you guys, the ones that are afraid to venture upgrading your antenna. Step back a step or two and ask yourself some basic technical questions: What is going on at the antenna itself, at the feedPOINT that might warrant the use of a transformer? I ask the broader question using the term "transformer" because we can ask this of any kind of antenna, not just yagi's so the use of a balun or an unun could come into play. Do you want the feedline to radiate? Does the manufacturer intend that the feedline radiate? You'd think not in the case of a yagi but...

Why would a manufacturer suggest to NOT use a balun? Maybe because a lot of hams don't do the due diligence to use quality components... Coax is UNBALANCED and it does radiate. It may be a lot or a little but it does radiate. Period. If we always used a given antenna on a specific frequency then the user could lock down how it was fed, the length of the feedline, virtually every parameter to maximize the power transfer from the back of the radio to the feedpoint of the antenna.

When it comes to baluns/ununs, I agree there's a lot of junk out there not well built, but at the same time even some of the marginal units work fine for what we're asking them to do. Transformers get warm. Fact of life. Coax gets warm. Fact of life. I'd rather the balun hanging out in the free air to get warm where it'll cool off than the coax in my wall. You really don't want either to get HOT so "choose wisely Grasshopper". Just know this: there's not a lot inside that PVC pipe or grey box but what is inside does a heck of a job to transfer power to the other side if done right.

Some points to ponder:

- + Since the final of your radio wants to see a 50 ohm load, do everything you can to make that happen, and I'm not just talking about S.W.R. There's more to antennas than S.W.R. This means taking the far end of the feedline into consideration. What is the characteristic impedance of the antenna? 50 ohms or something else? If you connect your coax directly to the antenna what does your radio see now: 50 ohms or something else? Yes, your tuner can match it 1:1 but that's only masking or hiding potential problems. Ideally, you want that 50 ohms to be seen at both ends of the coax, and that means using a transformer at the far end, otherwise your coax will radiate regardless what the SWR reads at your radio. Some antennas require a certain length of coax to "work as advertised". Why is that? Because they need the coax to radiate as part of the antenna. This isn't really in keeping with the spirit of transferring most of the power to the antenna. So in the case of a yagi, you really don't want the coax radiating. I applaud the increased use of [good] antenna analyzers these days. That's a big improvement over banging two rocks together the way we used to do in the dark ages of radio with noise bridges and the like (I still have one somewhere). Even in the hands of "amateur" amateurs, if one takes the time to read and follow the manual for your analyzer, you should have a better end result when you're done. So bottom line: Does the far end of your coax look like the back of your radio?
- + Do you need a transformer? I'm saying balun or unun depending on your antenna type. Baluns are used for an UNbalanced feedline (coax) to a BALanced antenna like a dipole. Yagis are basically a special case of dipoles. An unun is used going from an UNbalanced feedline (coax) to an UNbalanced antenna like an end-fed wire. That's a pretty basic summary of transformers. You just need to know if your antenna feedPOINT impedance is less than, the same as, or more than 50 ohms and buy/build accordingly (1:1, 4:1, 9:1, etc). Even when you have a 50 ohm feedPOINT impedance, your coax will radiate so using a 1:1 balun is a good idea, unless the manufacturer wants the coax to radiate or needs a certain length of coax to match the antenna. Personally, I think the latter is a bad idea. Using the feedline as part of the matching network is a nice "trick" but frankly, it's poor design. If you don't want to build a balun or unun (again depending on your antenna type), for WHATEVER REASON YOU DEEM VALID, buy one. I happen to like DX Engineering and Balun Design but most these are very beefy for the 100 watts or less most of us use them for. Note: Having a beefy unit is not a bad idea either. A 2kw rated balun will be better able to dissipate heat than one rated for 10 watts. Open your ARRL handbook and read up on these topics. Don't have a Handbook you say? Get one, any one will do but you may want something that is post vacuum tube era only because some of us old timers don't want to corrupt you younger hams. But I'm **drifting** off topic...
- + Like the words from an old song... "You like tomato and I like tomahto". Some yagi manufacturers say "No" to a balun but current chokes are OK. They're [typically] the same thing. Anything you connect to the back of the radio is going to have some kind of loss. That bears repeating: Anything you connect to the back of the radio is going to have some kind of loss. If we were talking about NASA sending a signal to one of their probes headed for deep space then sure, worry about every little thing but in HF we are SO far removed from those constraints that it's not worth worrying about a fraction of a micro-watt. Here's the truth: Connect it either way, with or without the choke/balun/mystery box and you'll find that you're still going to get good signal reports. Whether it's 55, 59 or 10 over, it's still a contact and if you're counting, it still goes towards your DXCC (or whatever). I think if we've reached the point of splitting hairs then we're over-thought this a bit too much.
- + There's nothing magical about Mosely, Force 12, or even StepIR beams. If you know what they're doing to make it work, it's likely a principle you were tested on to get your license, no slight of hand is going on. I think you can take what some yagi manufacturers say with a grain of salt; do what your gut tells you, what were you trained to do. Remember, look at an antenna as a whole. Some like the StepIR are more complicated but they're not magical. My beam actually came with a balun/choke on it and it works fine. Every manufacturer would like us to believe they're exploited a law of physics which the science community missed. Nonsense! If you put an analyzer on the antenna you'll know what the resistive component, the impedance, its S.W.R. All at a given frequency. You'll also know right there and then if you need a balun to match the coax to the antenna or just a good choke.

If you're never put an analyzer on your antenna(s), do it. You're in for a real treat and I might add, it'll be quite an eye opening experience, even if you don't consider yourself very technical. Connect it to the coax looking all the way to the antenna, see what that tells you. If possible (and safe to do!), connect it at the antenna feedpoint. See what that tells you. I'm fairly certain if more of us took the time to do this we'd know more about what we're doing and getting more out of the stations we put together. How many of us throw money at the purveyors of radio gear not knowing what's really going on with our antennas, just hoping if we spend enough, someone will give us a 59?

I know it's warm out there now, but snow is just around the corner. Now's the time to get your antennas in working order.

Fox 1E Launch Scheduled for December 2017 AMSAT News Service

Washington, DC, August 25th, 2016 —AMSAT has learned that the launch of RadFxSat-2/Fox-1E is set for December 2017. Going into space under the NASA Educational Launch of Nanosatellites ([ELaNa](#)) program, RadFxSat-2/Fox-1E is a partnership opportunity between Vanderbilt University's Institute for Space and Defense Electronics ([ISDE](#)) and AMSAT.

It is similar to RadFxSat/Fox-1B, which could launch in the next several months, and both RadFxSat CubeSats will carry radiation effects experiments.

The Fox-1E spacecraft bus will be built as part of the Fox-1 series but will feature a linear V/U (Mode J) transponder, instead of the standard FM repeater installed on Fox-1A through Fox-1D.

Twelve CubeSats constructed both by NASA and by several universities will be carried into space from Mojave, California by US Virgin Galactic's LauncherOne air launch-to-orbit system.

Fox-1E will be the fifth in the Fox series that AMSAT has built. Fox-1A, now AO-85, was launched in October 2015 and remains fully operational, providing science data from its onboard experiments and FM transponder service for the amateur radio community.

Fox-1Cliff and Fox-1D are scheduled for launch this fall.

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>



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



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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!

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Tables WITH Electricity: _____ X \$15.00 = _____

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(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



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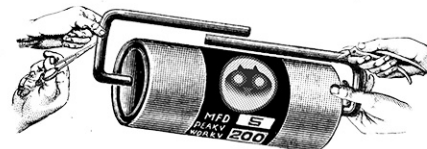
The Daily DX, 3025 Hobbs Road,
Glenwood, MD 21738 Phone: 301-854-5650



Arhhh!
What Mightst We Draw For Ye, Matey?



HANDMADE BY GNOMES.



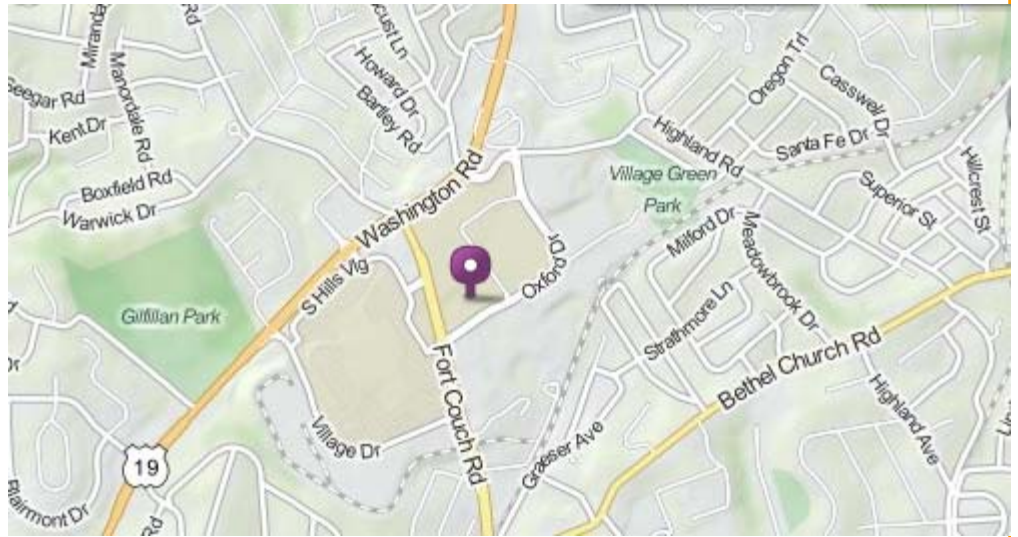
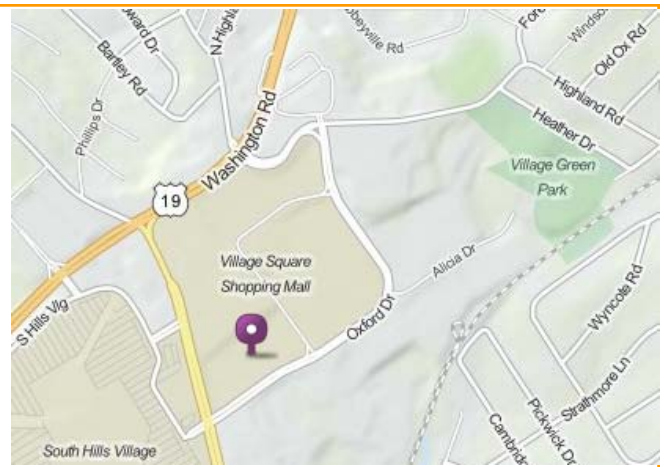
2016 WASH Meeting

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
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