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WASHRAG

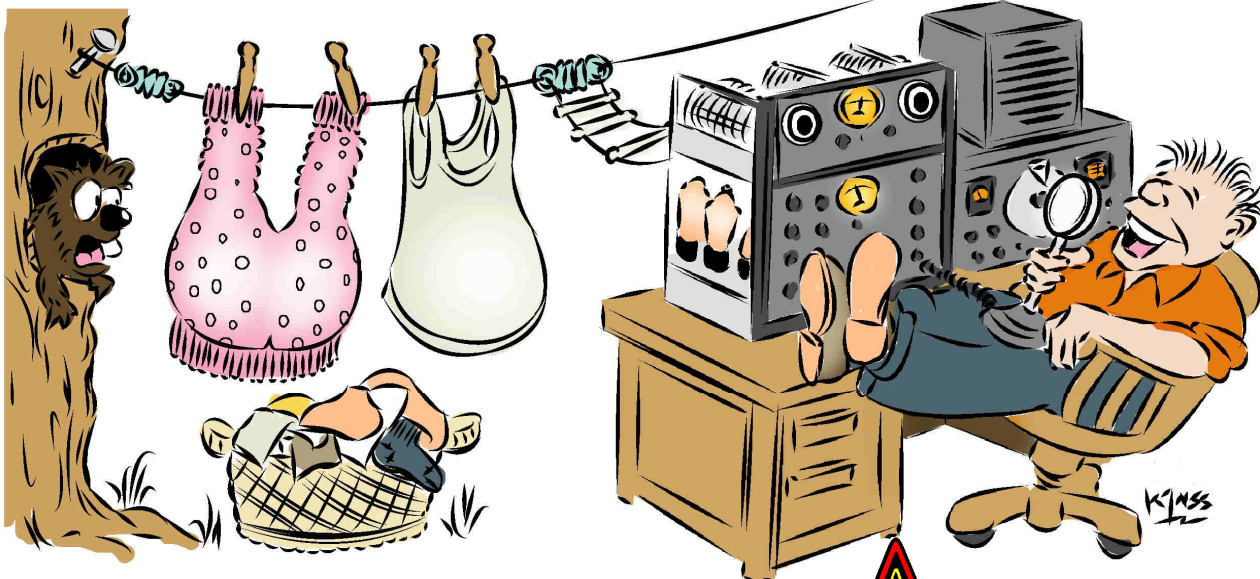
VOLUME 20 ISSUE 4
APRIL 2018

Wireless Association of South Hills



N3SH WA3SH NP2SH/B

www.n3sh.org www.washarc.org



WASHRAG™



VOLUME 20 ISSUE 4

APRIL 2018

Next Monthly Meeting: Thursday, April 5th, 2018

The next meeting of the **WIRELESS ASSOCIATION OF SOUTH HILLS, INC.** will be on **Thursday, April 5th 2018**, 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.

Subjects for the meeting include Field Day and Breezeshooter's Hamfest plans, and other upcoming plans for 2018.

See you there!

Cover Photo: OK, just one more picture from **WASHFest 2018**

Cover Photo is courtesy of & © Copyright 2018 Ron Notarius W3WN

WASH 2018 OFFICERS

EXECUTIVE COMMITTEE:

President	Glen Roberts KE7FD
VP / Secretary	Harold Rosenberger K3HCR
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 2019 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	Chuck Bihun KC3ELA
Field Day 2018 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)**, a 501.C.3 not for profit organization.

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 April 19th

The Next WASH VE exam sessions will be **Thursday**, April 19th, 2018, 7:00 PM, at the **WPXI Community Room**, 4145 Evergreen Road, Pittsburgh, PA 15214. Talk-in on the 146.955 MHz and 443.650 MHz repeaters. All examiners are ARRL VEC affiliated.

Pre-registration is not required. Walk-ins welcome!

But if you plan on attending the test session, please contact VE Team Liason Ron Notarius W3WN:

Telephone (412) 572-6723 or E-Mail: w3wn@n3sh.net

Please bring the following to your test session:

Picture ID or other suitable identification (2 forms of ID required)

Pen / Pencil / Calculator

Original FCC license plus a copy of license (if upgrading)

Original CSCE plus a copy of CSCE (if upgrading)

Check or Cash in the amount of \$15.00 (payable to: ARRL VEC)

Future test dates: July 19th, 2018
October 18th, 2018

Glen's Musings



It looks like Spring is finally here, albeit kicking and screaming from Winter.

With the 2 Meter Contest and **WASHFest** behind us, Vice President, Harold - K3HCR and I thought now would be an opportune time to recognize AND reflect on where the club is and where we hope to go. Broaching such thoughts might cause some to shrink away from addressing what every club surely lives, that is, how to sustain itself in the long term. There's no hesitation in my mind of the positive nature of **WASH**; no reason to look at the glass half-empty here!

So on Thursday, come with clarity of thought ready to speak up and be heard as we begin to expand the vision of **WASH**.

— 73, Glen Roberts KE7FD
President, Wireless Association of South Hills, Inc.
N3SH / WA3SH / NP2SH/b

ARRL & CQ Magazine have announced the launch, effective immediately, of Logbook of the World support for CQ's Worked All Zones (WAZ) Award Program.

The goal of the project, under way since last year, has been to create the proper technical support system to enable radio amateurs to submit LotW confirmations for WAZ credit.

LotW already supports CQ's WPX Award Program.

The morning between Good Friday and Easter Sunday is very often a chance for most folks to... sleep in, get some rest, and make their last minute plans for the holiday (and maybe bribe a rabbit or three about hiding eggs for the grandkids). So there wasn't a large turnout this month of **the WASH Breakfast Gang**, on Saturday March 31st at **Suzie B's**, 950 South Central Avenue (Route 910a at the intersection of Route 519 at US 19) in Canonsburg. This month's flock included N3FB, KB3GMU, N3IDH, and W3WN. Discussion points revolved around repeaters sites, spending a month in Florida with the feet up & a glass of wine, going to Nashville, adding code at the Titanic museum, surprise birthday parties, cats getting along (or not), Sunday brunch, Duquesne Dark, colorful adjectives on instant replay, traffic stops and accidents, lemon juice, and "I'm not making ANY promises!" And that was just what we took notes on!

Our next gathering of the Gang will be on Saturday, April 28th, as usual at **Suzie B's**, 950 South Central Avenue (Route 910 at the intersection of Route 519 at US 19), Canonsburg, officially starting at **8:00 AM**. Our "usual" tables will be reserved, but **please** let Jim WB4GCS know ahead of time, so that Suzie & her crew will have enough space available for us. (We really don't want to fight the State Police for seats... we'd lose!) See you there?

A quick reminder to all that the club is going to have a table again at the upcoming Two Rivers ARC Hamfest in Boston, PA on Sunday, April 8th. If you're planning to go, stop by the table and say "hi!" If you have an item or two for sale, there should be room on the table too. See Carol KB3GMN for more details.

Speaking of hamfests, did you notice that the **2018 Breezeshooters Hamfest** is now a 2 day event? (It is also the **2018 WPA Section Convention**) Many have noticed that the price of flea-market spots went up, but keep in mind that's for BOTH days. (The per-day charge is actually less — if you're going to setup for both days, that is) Ye Editor still plans on a Sunday only trip due to other commitments, but if anyone else is thinking of Saturday or both days, he would like to talk with you. And — the **WASH Picnic at the Breezeshooters** will remain a Sunday event, pending other developments.



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

Minutes, March 1st Meeting

Harold Rosenberger K3HCR, Vice President/Secretary, WASH

Glen KE7FD called the meeting to order at 19:17 hours. There were 17 members present.

The Pledge of Allegiance was recited, followed by a moment of silence was observed for recent Silent Keys & others deserving, and then introductions.

Motion to waive reading of the minutes based on the minutes printed in the newsletter by Carol KB3GMN, second by Bill W3WH, & passed unanimously.

Committee reports:

Treasurer (N3RDV): Read. Motion to accept by Bill W3WH, second by Frank N3FB and passed unanimously.

Secretary (KB3ERQ): Minutes in the newsletter

VE (W3WN): We had six candidates at **WASHFest 2018**, resulting in 3 upgrades and two new licenses. Thanks to the entire VE team for helping out. Remaining exams for 2018 will be scheduled this week, and will most likely be on the 'traditional' 3rd Thursday dates in April, July and October.

Repeaters (N3FB): Some changes and updates are in the plans.

WASHNet (KC3ELA): Going well. Things are picking up. "Great!"

N3SH.ORG (N3NWR): No report

Public Service (AB3ED): No report.

Contests (K3VX): Most are listed in the newsletter,

WASHFest 2018 (KB3GMN): Preliminary results indicate that this may have been our best hamfest ever! Several vendors have already committed to returning next year. Short discussion on possible changes to admission and table charges.

Ways & Means (KB3GMN): Voluntary membership contributions will be accepted after the meeting.

Newsletter (W3WN): Out. March #2 issue covering the hamfest should be out by mid-month.

President (KE7FD): Displayed several special awards created for the 2 meter contest (some are pictured on Page 6) and handed some of them out.

Old Business: Further discussion on **WASHFest 2019**. Motion by Carol KB3GMN, second by Bill W3WH, to reimburse Carol \$300 for the 2019 hall deposit.

New Business: Motion by Carol KB3GMN, second by Frank N3FB, to spend \$10 for a club table at the upcoming Two Rivers Hamfest. Passed unanimously.

Good of the Order: Richie N3SBF stated that Bud N3TIR from WACOM is organizing a bus trip to Hamvention. He is trying to get 45—50 people to sign up for the trip.

Motion to Adjourn by Jim WB4GCS, second by Chuck KC3ELA, and carried unanimously.

Meeting adjourned at 19:36

Pizza was then consumed, followed by a presentation by Larry K3VX on impedance matching.



KB3BYA, K3HCR, K3VX and N3SBF patiently waiting for the meeting to start... or the pizza to arrive...

WASH Spotlight: Pizza!

Want to be the most welcome ham at meeting night?

Simple!

As Chuck KC3ELA found out, just be the guy bringing in all of the pizza for Pizza Night!

(Oh, and thanks also to Glen KE7FD for actually BUYING the pizza and transporting it to the meeting!



Photo courtesy of and © 2018 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 & 443.659 for talk-in or any last minute changes. All are welcome, **WASH** members or not, amateurs or not!

Wireless Association of South Hills Membership

AA3GM	KB3JHR	N3SBF	WASH FL	WASH TN	Silent Keys
AB3NM	KB3YCX	W3WH	KA3UPY/M	K3OL	
AE3DL	KC3ELA	W3WN	W4ZE	KE3XB	AB3KA
K3CMU	KC3GMM	WA3PYU	WASH NE	N3YPB	K3EED
K3HCR	KC3KMY	WA3VSS	NØPEU	WASH TX	K3LIE
K3SGT	KC4WTT	WB4GCS	WASH OR	NB3C	KA3NMG
K3VX	KE7FD	WO3Z	NØWPV	K3LGM	KB3ENX
KA3VXM	NØVLR	Barbara	KB3NVL	KB3IJX	KB3FNM
KB3BYA	N1NCZ	Udren	KB3NVM	Jane Wagner	KB3FQT
KB3DCO	N3BPB		WASH OH	WASH VI	KB3JHQ
KB3GMN	N3DFK		N8DPW	NP2JF	N3CZZ
KB3GMU	N3FB				N3FZ
KB3IAC	N3KFD				N3HKQ
KB3IVX	N3RDG				N3KEH

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

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

N3OBD
N3RNX
N3SKR
N3SRC
N3ZEL
N3XFE
W3ZLK
WA3JPP

2018 WASH Upcoming Events Calendar

Club Meetings & Other Significant Events — Subject to Change

April 5 th	WASH Meeting	St. Clair Hospital Outpatient Center, 2000 Oxford Drive, Bethel Park
April 8 th	2 Rivers ARC Hamfest	http://www.trarc.net
April 19 th	WASH VE Exams	WPXI Community Room, 4145 Evergreen Road, Pittsburgh
May 3 rd	WASH Meeting	St. Clair Hospital Outpatient Center, 2000 Oxford Drive, Bethel Park
May 18 th — 20 th	Dayton ARA Hamvention ®	Green County Fairgrounds, Xenia OH
May 26 th — 27 th	CQ WPX Contest CW	http://cqwpw.com
June 2 nd — 3 rd	Breezeshooter's Hamfest	http://breezeshooters.org
June 7 th	WASH Meeting	St. Clair Hospital Outpatient Center, 2000 Oxford Drive, Bethel Park
June 9 th — 11 th	ARRL June VHF Contest	http://www.arrl.org
June 23 rd — 24 th	ARRL Field Day	http://www.arrl.org
July 5 th	WASH Meeting	St. Clair Hospital Outpatient Center, 2000 Oxford Drive, Bethel Park
July 19 th	WASH VE Exams	WPXI Community Room, 4145 Evergreen Road, Pittsburgh
August 2 nd	WASH Meeting	St. Clair Hospital Outpatient Center, 2000 Oxford Drive, Bethel Park
September 6 th	WASH Meeting	St. Clair Hospital Outpatient Center, 2000 Oxford Drive, Bethel Park
October 4 th	WASH Meeting	St. Clair Hospital Outpatient Center, 2000 Oxford Drive, Bethel Park
October 6 th & 7 th	California QSO Party	http://www.cqp.org
October 13 th & 14 th	Pennsylvania QSO Party	http://www.nittany-arc.net/PAQSO.html
October 18 th	WASH VE Exams	WPXI Community Room, 4145 Evergreen Road, Pittsburgh

"Seen" at the March Meeting

Photos Courtesy of and © Copyright 2018 Ron Notarius W3WN



KB3GMN & N3SBF



KB3IVX, KB3IAC

N3FB, KB3JHR



KE7FD, K3HCR



W3WH & Pizza!



KB3YCX, WB4GCS





Where Are We Heading?

Bill Hill W3WH

Chartiers Township, PA , March 20th, 2018 — Wow, another record **WASHFest**! Our coffers are beginning to swell with cash. What a wonderful dilemma.

Yes it is wonderful that we have been blessed with success with **WASHFest**, but I wonder if anyone has thought about what we should do with our money. Yes we always have expenses and we need to keep funds in reserve in case Snowmageddon or some other tragedy bites us in the future. But I think that as a Club the membership should ponder what we should do with excess cash. IMHO money is of no value unless it is used for some worthy purpose. How much pizza can we consume etc. etc.?

I hope we can put our collective heads together and adopt a plan to further Amateur Radio(especially locally) to the best of our ability. We have some excess after the last **WASHFest**. Obviously it's not enough to buy 10 acres of ground ,erect a Clubhouse and an antenna farm. So we should consider things that are within our means.

- ⇒ One suggestion is that we accumulate radios to lend to new hams to get them jump started in the hobby if they don't have funds available immediately. We tried this in the past with an ICOM 730 something and it really didn't produce any spectacular results, to the extent that we sold the radio.
- ⇒ Another is to assemble a couple of "Go Kits" for use of the membership in the event of an emergency or dxpedition. Would they be used enough to justify the investment?
- ⇒ The last suggestion I've heard is that we should investigate establishing a scholarship fund to assist "the deserving" and their kids further their educations. This is kind of an interesting idea but would it really help "grow" Ham Radio? I don't know. What's your opinion

This is not something that is urgent or that needs to be decided at one meeting, but I think it's important that we begin thinking and talking about something to do with our largesse, to justify our existence, and to help make our world a better place.

Let's figure out where we're heading.

May 14th, 2020 — Due to concerns raised by the author of this article, and to avoid any unnecessary related concerns or further complications, the entire article has been deleted from the newsletter.

Our apologies to anyone who was offended in any way by the inclusion of this article.

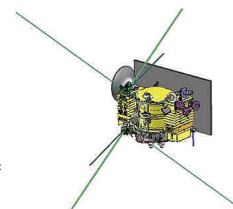
China's twin-launch Chang'e 4 mission to the far side of the moon will place a pair of microsatellites in lunar orbit this spring "to test low-frequency radio astronomy and space-based interferometry." The two satellites, unofficially called *DSLWP-A1* and *DSLWP-A2* (DSLWP = Discovering the Sky at Longest Wavelengths Pathfinder), could launch this spring. The pair represent the first phase of the Chang'e 4 mission, which involves placing a relay satellite in a halo orbit to facilitate communication with the Chang'e 4 lander and rover, which will be sent to the far side of the moon in December. Because the moon's far side never faces Earth, the satellite is needed to serve as an Earth-moon relay. The Chang'e 4 mission will be the first-ever attempt at a soft-landing on the far side of the moon.

The two spacecraft also will carry Amateur Radio and educational payloads, but not a transponder. Developed by students at the Harbin Institute of Technology, the Amateur Radio payload on *DSLWP-A1* will provide a telecommand uplink and a telemetry and digital image downlink. Radio amateurs will be able to transmit commands that allow them to send commands to take and download an image.

The satellites will piggyback on the Chang'e 4 relay package and will deploy themselves into a 200 × 9,000 kilometer lunar orbits. The 50 × 50 × 40 centimeter spacecrafts each weigh about 45 kilograms and are three-axis stabilized. Two linear polarization antennas are mounted along and normal to the flight direction. The satellites will use the moon to shield them from radio emissions from Earth.

The Harbin Institute of Technology team has proposed downlinks for A1 on 435.425 MHz and 436.425 MHz. Downlinks for A2 would be 435.400 MHz and 436.400 MHz using 10K0F1DCN or 10K0F1DEN (10-kHz wide FM single-channel data) 250 bps GMSK with concatenated codes or JT65B.

The launch is anticipated for May or June on a CZ-4C vehicle, putting the satellites' deployment about 6 months ahead of the launch of the Chang'e 4 lander and rover. — *courtesy of the American Radio Relay League*



April Trivia Quiz

Mike Serowik N3BSQ

1) Tracking of extra-terrestrial objects requires

- A. High transmitting power
- B. Very sensitive receiver
- C. Fully steerable antenna
- D. All of the above

2) An earth mat for a communication tower consists of

- A. One or two radials extending from base of tower at a depth of about 5 cm below ground
- B. A large number of radials extending from base of tower at a depth of about 3 m
- C. A large number of radials extending from base of tower at a depth of about 30 cm
- D. None of the above

3) It is desired that transmission line and load should match for a range of frequencies. The best method is

- A. To use a balun
- B. To use a single stub of adjustable position
- C. To use a double stub
- D. To use a broad band amplifier

4) Counterpoise is used in coils having

- A. High resistivity
- B. Low resistivity
- C. Medium resistivity
- D. Both (b) and (c)

5) "Half-splitting" is

- A. A means for nuclear fuel cells to produce electricity
- B. A means of isolating a problem in a circuit
- C. A means for reducing a high ac voltage to a low dc voltage
- D. A means of limiting current in a circuit

6) A damaged resistor

- A. May appear burned
- B. May have an increased resistance value
- C. May be checked with an ohmmeter
- D. All of the above

7) A series of gradually decreasing sine wave oscillations is called

- A. Ringing
- B. Slew
- C. Overshooting
- D. Undershooting

8) The use of a multimeter with digital circuits allows the measurement of

- A. Pulse width
- B. Voltage or resistance
- C. Current
- D. Pulse trains

9) The first licensed commercial radio station debuted in 1920 in this city

- A. New York City
- B. Chicago
- C. Baltimore
- D. Pittsburgh

10) An oscillator produces _____ oscillations

- A. Damped
- B. Undamped
- C. Modulated
- D. None of the above

HAARP Ignites Ionosphere Again

Dave Cole NK7Z

HAARP Testing Facility, Gakona, AK, April 1st, 2018 — Today in a bizarre twist the HAARP facility initiated an "Atmospheric Warming" event in error. The janitor, while dusting the HAARP control console in facility 2B accidentally pressed the "ON" button for the array. Mr. Ito immediately after accidentally pressing the ON button: "I touched nothing, it was like that when I entered the room", he said, while stomping one foot for emphasis.

The HAARP reactor master control rod set was forcefully removed by a spring loaded launcher clip which was released as a result of Mr. Jan Ito's error. This in turn triggered the launch of the rod set completely out of the reactors core, thus ending any chance of having the rod set reinserted to halt the runaway reaction.

The reactor then began to overheat, and as a result of that overheating, the emergency control rod set dropped in place, as designed, quenching the possible "China Syndrome" event.

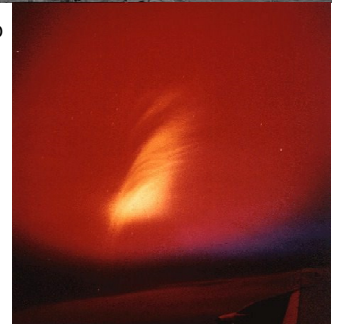
Unfortunately the energy pulse from the short reactor power burst was transferred directly to the HAARP multi-element gain antenna array, resulting in a 5.8 terawatt ERP RF burst on 14.313 Mhz., which then resulted in what HAARP managers called "a small ignition event", directly above the HAARP facility "Nothing to worry about here, we have anticipated every possible outcome and have plans in place for anything that might happen.", said HAARP spokesperson Dr. Dee Structor.

The HAARP spokesperson further stated, "This sort of thing happens all the time at HAARP, so this really is just a non event, hell, there is a pile of control rod sets just outside the reactor containment building from previous events".

When asked about these images, taken by passer-bys via dashcams as 20 miles away, Dr. Structor indicated that this was also a day to day event at HAARP, then said, "You people really have no idea what we do here do you?".

Dr. Structor went on to say that no one was injured, and that the HAARP facility can deal with almost any event. "You thought this was bad, you just you wait until tomorrow-- we have a really special event planned, we will try and light the Ocean on fire! Not to worry though-- our calculations show that the event will last no longer than 10E17 seconds.". She then corrected herself with a chuckle and said, "Now that would be bad wouldn't it? I should have said 10-E17 seconds...", still chuckling Dr. Structor turned and walked back through the 3 foot thick hardened steel doors of the HAARP facility.

(Editor's Note: the last time an event similar to this took place at this magnitude, the Van Allen Belt caught on fire, leaving behind only the Van Allen Radiation Belt in the upper atmosphere. While the full details behind that were never made public, a declassified version of the events were documented by renowned historian Dr. Irwin Allen, a link to which can be found on Wikipedia at https://en.m.wikipedia.org/wiki/Voyage_to_the_Bottom_of_the_Sea)



Two Rivers ARC 47th Annual Hamfest

Sunday, April 8th, 2017, 8:00 AM—2:00 PM

The Spectrum

6001 Smithfield Street, Boston PA 15135

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

Talk-in on 146.730 — Mobile Check In 146.52

Admission \$5

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



Tri-State Radio Fest

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

Sunday, April 22nd, 2018, 8:30 AM—2:00 PM

Center State Banquet Hall

1495 Old Broadhead Road, Monaca, PA 15061

Flea Market Sales 8:30 to 12:00 Noon

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

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

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

64th Annual BreezeShooters Hamfest & ARRL WPA Section Convention



Saturday, June 2nd, 2018 9:00 AM to 5:00 PM

& Sunday, June 3rd, 2018 8:00 AM to 2:00 PM

at the Big Butler Fairgrounds,

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

\$10 Per Person Admission Donation Good for Both Days

Indoor Tables & Tailgate / Flea Market Spaces Available

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

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

14 Main Prizes

Half Hour Prizes (based on Admission Tickets)

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

Or mail reservations to PO Box 101018, Pittsburgh PA 15237

Table reservation cut-off date May 20th, 2018

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

<http://www.breezeshooters.net> or email hamfest@breezeshooters.org

Myanmar Issues First Resident Call in Decades

Simon Luttrell HSØZIB/XZ2A

Naypyidaw, Myanmar, March 25th, 2018 — After 6 years of living in Myanmar and (often-frustrating) effort, my endeavors were finally rewarded last week when I was issued with the call-sign XZ2A, and allowed to operate on a long-term basis from my QTH in Naypyitaw.

There have been a few DXpeditions in the past years, notably those of Zorro. But these have all been short-term operations by visiting foreign hams. My call-sign has been issued using the '2' series, which indicates a resident ham operator.

The licencing authorities have started out cautiously - I can only operate on 15, 12 and 10 metre bands. I can use any mode and any type of antenna, but no power amps. My licence was only issued after stringent background checks and an undertaking by my employer that I'll behave myself.

If you're thinking that it would now be a great idea to visit Myanmar with your DXpedition, maybe think again! When I collected my licence documents, I was told by the relevant department that due to 'security' issues, currently they will decline applications for DXpedition operating permits.

But there is a solution! Just do what I did and move to live in Burma!

Update: The reason why they limit my operation to the higher bands is because the professional receiver in their monitoring department has a frequency range from 20 MHz - 8 GHz! (Good luck trying to monitor my digital signals...)



10 Most Wanted

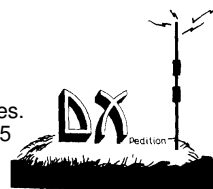
According to ClubLog, the DXCC 10 Most Wanted Entities, as of March 30th, include:

1. P5 DPRK (North Korea)
2. 3Y/B Bouvet Island
3. FT5/W Crozet Island
4. CEØX San Felix Islands
5. BS7H Scarborough Reef
6. KH1 Baker Howland Islands
7. BV9P Pratas Island
8. KH7K Kure Island
9. KH3 Johnston Island
10. VKØM Macquarie Island



DX News Briefs

The **3B7A** team departed on 2 April, excluding **3B9/F4BKV**, following a 24 hour delay due to aircraft issues. They are scheduled to be QRV with multiple stations 5 through 17 April. More information at <http://www.saintbrandondx.com/en/>. QSL via F5CWU – Team 3B7A



Slim Pickings: ZS4X states that his old **ZS6BUU** call has not been re-issued and is currently being pirated. **JX2018A** is also a Slim operation, and is suspected of being the same operators as **JX2016A** and **JX2017A** in the past -- OPDX

CT1IUA is now QRV as **D4IA** from AF-086 through 9 April, HF, primarily CW. QSL via CT1IUA – CT1IUA

F2VX is now QRV as **FM/F2VX** from NA-107 through 18 April, HF, mainly SSB. QSL via F2VX – OPDX

3 ops will be QRV as **A5A** 4 – 11 April, 160 – 6, CW SSB & RTTY. QSL via JH1AJT – Foundation for Global Children

R4WAA will be QRV as **9N7WA** 20 – 27 April, CW and Digital, on HF. QSL via R4WAA – R4WAA

GW4DVB will be QRV as **J88PI** NA-025 21 – 29 April, 40 – 6, SSB only. More info at <http://www.g4dvh.co.uk> QSL via GW4DVB – G4DVB

OH3WS will again be QRV as **OJØW** 27 April – 4 May, 20 - 6 meters, CW & SSB. QSL via OH3WS – OH3WS

JG7PSJ will be QRV as **JD1BMH** from AS-031 29 April – 6 May, 40 – 10, CW SSB & RTTY. More information at <http://sapphire.es.tohoku.ac.jp/jd1bmh> QSL via JG7PSJ – JG7PSJ

F5SGI will be QRV as **9H3JI** EU-023 5 – 12 May, 80 – 6, CW only. QSL via F5SGI – F5SGI

KM7R will be QRV as **E51KMR** from E51JD's station on OC-013 8 – 11 May, holiday style, primarily SSB. – KM7R

7 ops will be QRV as **GB9OSA** from EU-120 (Isle of Wight) 8 – 13 May, 160 through 2 meters (including 4 meters), primarily SSB with some Digital modes. QSL via ON6EF – OPDX

JA1XGI expects to be QRV as **H44XG** sometime in June or July (the exact dates to be determined). He will be on 40 – 10, mainly CW, some FT8. QSL via JA1XGI – OPDX

VQ5Z will be QRV from NA-002 1 – 11 July, HF & 6 meters using multiple modes. QSL via VE3IKV – OPDX

DF8AN will be QRV from Christmas Island OC-002 as **VK9XQ** 3 – 6 November & 10 – 17 November, and from Cocos (Keeling) Island OC-003 as **VK9CH** 6 – 10 November. All activity will be 160 – 6 on CW, RTTY and Digital modes. QSL via DF8AN only – DF8AN

QSL Routes

3Z1K via SP1KRF	HSØZJF via ON4AFU	OT6M via ON9CC
5V7SM via F5IVC	II3B via IQ3SD	PF2Ø18YLS via PAØMBD
8P6DR via G3RWL	LX7I via LX2A	PI4YLC via PA5CT
A5A via JH1AJT	LZ65RCP via LZ1JZ	PJ2/AG4F via AG4F
C93PA via PA5X	M7T via G3YYD	RI5ØANO via RN1ON
CN2JJ via CN2JJ	OE1ØØAIR via OE8AIR	SD6E via SM6BGG
CT9/DF7ZS via DF7ZS	OE1ØØBKC via OE3BKC	SN7D via SQ7DQX
DA2ØØFWR via DK2PU	OE1ØØEGN via OE5EGN	TC3SO via TA3AER
DM4X via DK1MAX	OE1ØØFTE via OE6FTE	TMØR via F5GGL
DQ2C via DL2CC	OE1ØØGBK via OE8GBK	TO2BC via DL7BC
DQ8ØØHRO via	OE1ØØIIO via OE5IIO	TJ2TT via I2YSB
DL5KVV	OE1ØØJML via OE5JML	TY2AC via DL9USA
DR5N via DL9YAJ	OE1ØØPKB via OE3PKB	UI8J via RW9JZ
ED5FDC via EA5HT	OE1ØØRNS via OE3RNS	V26PD via NR6M
EF2A via EA2OT	OE1ØØSGU via OE3SGU	XV9BG via RWØBG
EH3DWN via EA3HKY	OE1ØØVIE via OE4VIE	YR1ØØBA via
HC5DX via W3HNK	OE1ØØYSC via OE3YSC	YO8SGM
HG5A via HA5KDQ	OE1ØØYXK via OE8YXK	YR63ØSV via YO8AZQ
HG5OLDT via HAØKA	OHØJV via DL7RV	ZS9Z via ZS1OIN
	OO9A via ON8YB	

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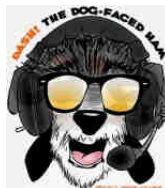
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The **WASHRag** Masthead is courtesy of Jeff Murray K1NSS, creator of DASHToons & Dash the Dog Faced Ham!!

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FCC Launches New Honors Engineering Program

The FCC **has announced** a new Honors Engineer Program to recruit current students and recent engineering school graduates to the FCC and into the forefront of the technology and communications fields.

"The digital revolution is rapidly transforming virtually every aspect of American life," said FCC Chairman Ajit Pai. "And it's changing the FCC's work, too. Many of the issues we confront today are technically complex. That makes it all the important to bring the best engineering talent to the Commission."

The Commission is seeking new engineering talent to work on cutting-edge issues in the communication and high-tech arenas. The FCC is offering an opportunity for individuals to gain public sector experience through a 1-year career development program, after which Honors Program engineers would be eligible for consideration for continued employment at the FCC.

The FCC will review many facets of a candidate's background, including academic achievement, technical skills, engineering, and extracurricular activities, as well as demonstrated interest in government service and/or the communications sector. Interested individuals should review the recruitment announcement and [apply online](#).

April Trivia Answers

- | | |
|----|---|
| 1 | D |
| 2 | C |
| 3 | C |
| 4 | A |
| 5 | B |
| 6 | B |
| 7 | D |
| 8 | A |
| 9 | D |
| 10 | B |



Courtesy of the American Radio Relay League

Newington, CT, March 30th — The FCC reports that it seized transmission equipment from two pirate radio stations in Boston on March 26th. According to court documents, the seizures involved an illegal broadcaster that identified as "Big City" on various FM channels from Dorchester, Massachusetts (with a studio in Roxbury) and pirate "B87.7 FM," which operated on 87.7 FM from Dorchester. Both unlicensed stations had been issued multiple warnings but continued to operate. Pursuant to federal forfeiture statutes, authorities seized equipment operated by each radio station. The forfeiture actions came in the wake of complaints to the FCC — including one from a licensed broadcaster — about interference, the FCC said.

"When pirate radio stations refuse to cease operations, despite multiple warnings, action must be taken," US Attorney Andrew E. Lelling said. "It is a public safety hazard for illegal radio stations to broadcast, potentially interfering with critical radio communications. We will work in conjunction with the FCC's Enforcement Bureau to identify violators of federal communications law."

Over past year, the FCC has significantly ramped up its enforcement activity against unlicensed broadcasters, netting at least two Amateur Radio licensees alleged to be involved in pirate broadcasting.

Enforcement Bureau Chief Rosemary Harold said the FCC has been "pursuing multiple legal routes to stop pirate broadcasters," and that the seizure action in Boston is just one of them. The Communications Act of 1934 prohibits the operation of radio broadcasting equipment above certain low-intensity thresholds (under FCC Part 15) without an FCC license. The Act authorizes the seizure and forfeiture of any electronic or radio frequency equipment used to broadcast without an FCC license.

The US Marshals Service and Boston Police Department provided assistance with the seizure operations

On the same launch as an Amateur Radio satellite in January from India, some tiny 0.25 U CubSats called SpaceBEEs — not to be confused with the fantasy insects in the "Futurama" TV cartoon — also went into space when they apparently should not have.

Last December, in a letter to their developer, **Swarm Technologies Inc.** of Los Altos, California, Anthony Serafini, the Chief of the FCC's Experimental Licensing Branch, advised that the FCC was unable to grant the company's application for an Experimental authorization in association with deployment and operation of "four spacecraft smaller than 10 cm in one of their three dimensions." In dismissing the application without prejudice, the FCC said the spacecraft were below the size threshold "at which detection by the Space Surveillance Network (SSN) can be considered routine." The FCC said the proposed addition of KU-band radar reflectors would overcome the issue only with respect to the small portion of the SSN that utilizes the KU band.

"In the absence of tracking at the same level as available for objects of 10 cm x 10 cm x 10 cm, and in the event of a conjunction with an operational spacecraft, the ability of operational spacecraft to reliably assess the need for and plan effective collision avoidance maneuvers will be reduced or eliminated," the FCC said.

Last week, the FCC e-mailed Swarm Technologies that its application for an additional experimental authorization had been set aside and was "in a pending status for further review."

"The International Bureau requested that the grant be set aside in order to permit assessment of the impact of the applicant's apparent unauthorized launch and operation of four satellites, and related statements and representations, on its qualifications to be a Commission licensee," the FCC informed Swarm Technologies.

Swarm told the FCC in an appendix to its experimental radio authorization application that it was seeking to demonstrate "two-way communications satellites to serve as a cost-effective low-data rate Internet of Things (IoT) network connectivity solution for remote and mobile sensors."

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

Has Roadway found the tower yet?

Somerset County ARC 15th Annual Hamfest

Sunday, July 1st, 2018, 8:00 AM—1:00 PM

Vendor Setup beginning at 6:00 AM

Somerset County Technology Center

281 Technology Drive, Somerset PA 15501

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

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



Butler County ARA Swapfest 2018

Sunday, September 9th, 2018, 8:00 AM—3:00 PM

Grounds Open at 6 AM for Vendors & Tailgaters

Unionville Volunteer Fire Department

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

Talk-in on 147.360 PL 131.8

Admission \$5

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



WACOM HAMFEST 2018

Printscape Arena

[New Location!]

114 Southpointe Blvd, Canonsburg PA 15317

Sunday, November 4th

8:00 AM to 3:00 PM

Setup at 6:30 AM

Talk-In on 146.790 (131.8 PL)



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

Main Prize Drawing at 1 PM

Winner Need Not Be Present To Win

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

VE Testing starting at 9:00 AM

Breakfast & Lunch Will Be Available

Check www.wacomarc.org for Updates



Vendors contact: Bud Plants N3TIR

bud@n3tir.com 724-350-6745

Or WACOM, c/o Norma Plants N3YJJ, 236
Chambers Ridge Rd, West Alexandria, PA
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Membership Application, New or Renewal



I would like to join WASH! I am interested in the following type of membership: ☐ **New Membership** ☐ **Membership Renewal**

(check quarter _____)
(check one)

	<input type="checkbox"/> 1st Qtr Jan-Mar	<input type="checkbox"/> 2nd Qtr Apr-Jun	<input type="checkbox"/> 3rd Qtr Jul-Sept	<input type="checkbox"/> 4th Qtr Oct-Dec
<input type="checkbox"/> (F1) Full Membership:	\$20.00	\$15.00	\$10.00	\$5.00
<input type="checkbox"/> (F2) Full Membership < 18 or > 65 yrs of age:	\$10.00	\$7.50	\$5.00	\$2.50
<input type="checkbox"/> (A1) Associate Membership:	\$10.00	\$7.50	\$5.00	\$2.50

☐ (FM1) Family Membership (\$3.00 x No. of household family members): \$ _____

Name(s): _____

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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
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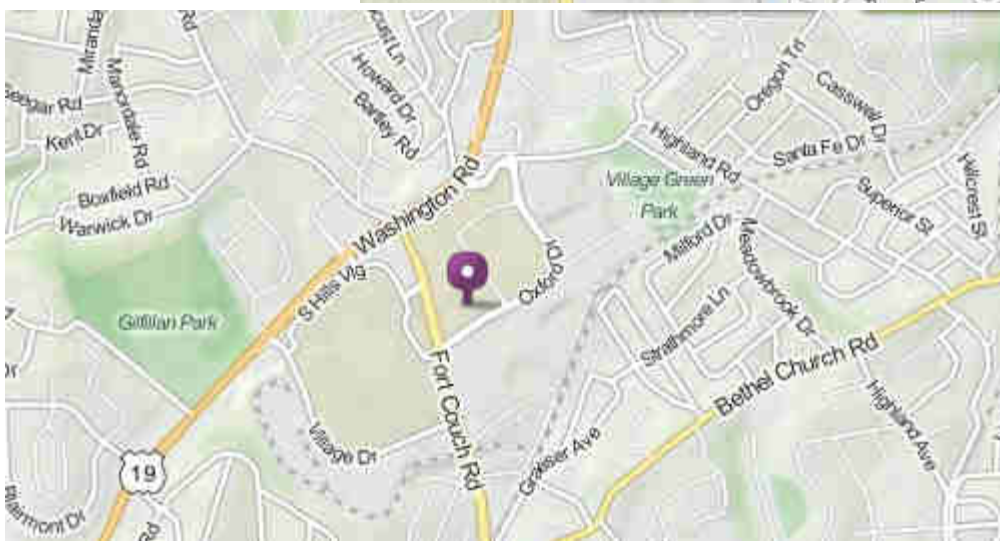
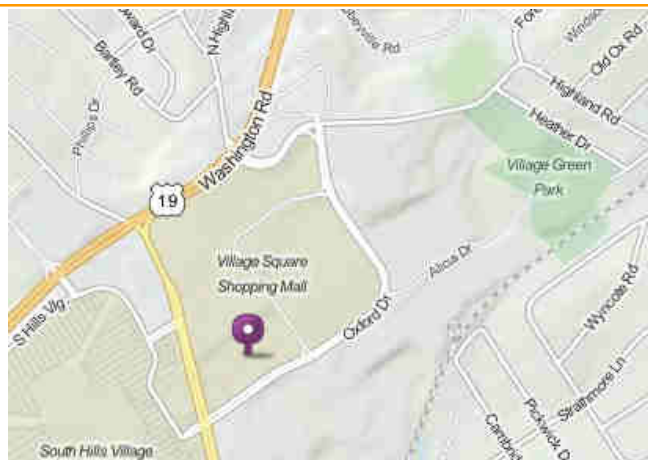


2018 WASH Meeting Location

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2000 Oxford Drive, Bethel Park PA 15102

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South Hills Village Mall, just off of US Route 19



The WASHRag

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