

WASHRAG

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VOLUME 23 ISSUE 02
FEBRUARY 2021

Wireless Association of South Hills

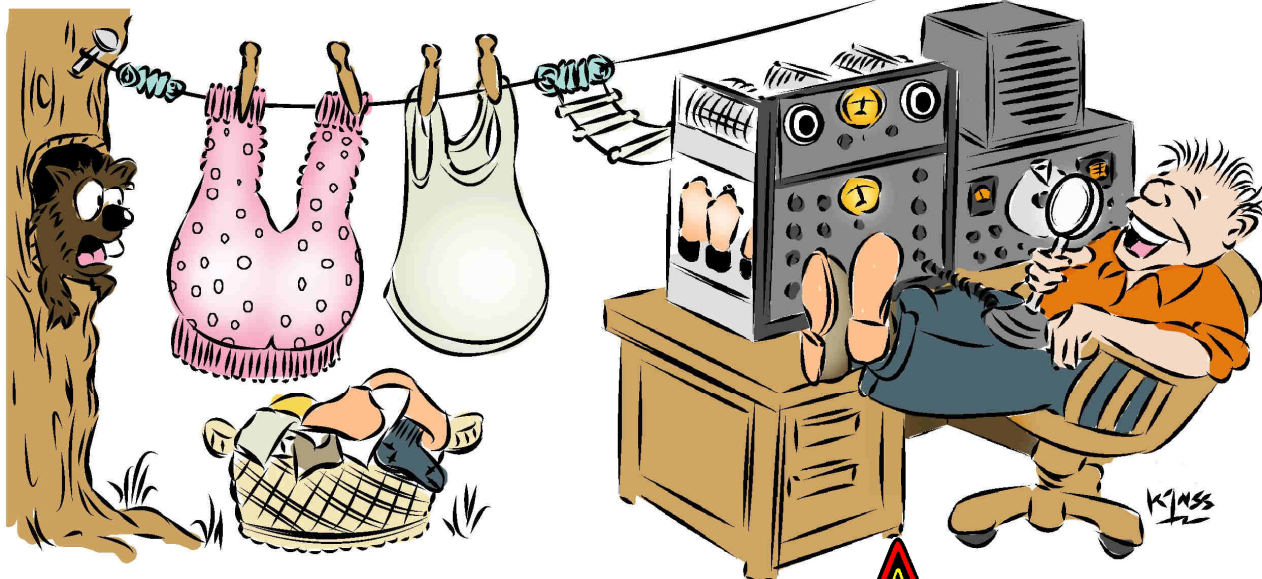
WASHFEST 2021
CANCELLED

N3SH WA3SH NP2SH/B

www.n3sh.org www.washarc.org



Wireless Association of South Hills



WASHRAG™



VOLUME 23 Issue 02

FEBRUARY 2021

Next Monthly Meeting: Thursday, February 4th, 2021

The next scheduled meeting of the **WIRELESS ASSOCIATION OF SOUTH HILLS, INC.** will be on **Thursday, February 4th, 2021.**

Due to the pandemic situation, the conference room at St. Clair Hospital's Outpatient Center is not available, and has been replaced by an on-line Zoom meeting, also starting at 7 PM.

If you would like to attend but did not receive an invitation, contact Tony KB3BYA.

See you there!

Cover Photo: January Morning Hoarfrost on Carl KC3KFW's antenna. And it still tuned up!

Cover Photos courtesy of and © Copyright 2021 Bud Plants N3TIR and Carl Keller KC3KFW

WASH 2021 OFFICERS

EXECUTIVE COMMITTEE:

President	Tony Romano KB3BYA
VP / Secretary	Dan Campbell K3CMU
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	Grant Olson KC3MLL
Webmaster	Curtis Turner KB3CMT
Quartermaster	Harold Rosenberger K3HCR
WASH FM Net Manager	Chuck Bihun KC3ELA
WASHFest 2021 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 2021 Coordinator	Glen Roberts KE7FD

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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Ron Notarius W3WN
3395 Rosewood Drive, Castle Shannon, PA 15234-2546
e-mail: newsletter@n3sh.org or w3wn@arrl.net

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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, its members, or its 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 its members to use their repeaters for club purposes.

WASH Amateur Radio Club News Briefs

Next WASH VE Test TBA

The Next WASH VE exam session will be on Sunday, February 23rd, 2020, 10:00 AM, at **WASHFest 2020**, 3735 Buffalo Drive, South Park,

Sorry I haven't been around much, work has been crazy. It's been difficult to come up with a good plan to resume VE testing where we can provide enough notice to users and know that the rules and situation isn't going to change in the next few weeks.

But the ARRL has finally set up a system to do online testing and I just shot off an email and got access to the resources. I'll go through those and will provide a more detailed report of our options at this weeks meeting.

-Grant Olson KC3MLC, WASH VE Liaison

PA 15129. Talk-in on the 146.955 MHz repeater. All examiners are ARRL VEC affiliated.

Tony's Musings

I hope this Newsletter finds everyone in good health!

The first part of this Year Amy and I had Covid, very mild symptoms but still it had me down for the 2 meter contest where I couldn't get out of bed. So I missed my favorite contest of the year!! I hope everyone else had a great time participating i the contest.

In the meantime, I've decided that there is a huge vacancy in Southwest Pennsylvania for a DMR Repeater, So I've decided I will build one. I'm in the first step now which is research. I guess I'll need a repeater pair for UHF, and I'll let you know my progress, I hope by the end of the year to be finished. I may need some of your help I will let you know.

— 73, Tony Romano KB3BYA

President, WIRELESS ASSOCIATION OF SOUTH HILLS, Inc.
N3SH / WA3SH / NP2SH



WASHFest 2021 Cancellation Notice

The **WIRELESS ASSOCIATION OF SOUTH HILLS** Officers have been monitoring fallout from the COVID-19 pandemic, particularly large-gathering guidance and mandates from the CDC and the Governor of Pennsylvania Tom Wolf along with Dr. Rachel Levine, Secretary of the Department of Health.

As our world turned upside down last March we held out hope that we could anticipate a brighter picture this coming February for **WASHfest**. However, due to strict capacity limits on indoor gatherings, **WASHfest 2021** this February would not be feasible for safety reasons.

With deep sadness the **WIRELESS ASSOCIATION OF SOUTH HILLS** has voted to cancel **WASHfest 2021**. We make this decision for The health and safety of all **WASH** club members, The safety of our Visitors, Vendors, and Volunteers and family is of the highest priority, I urge everyone to maintain proper social distancing please be safe everyone! We expect to be constantly monitoring the situation and looking for any opening that would let us resume normal club activities.

73, Tony Romano KB3BYA , President, WIRELESS ASSOCIATION OF SOUTH HILLS, Inc.

Reminder: The February WASH Meeting will be held online as a Zoom Meeting. If you would like to attend the meeting but did not receiving an invitation, please contact Tony Romano KB3BYA immediately.

If you do not have or cannot install the Zoom app, you can attend by telephone; Tony will get you the phone number.

Usually, the February "Club News" column is pretty much filled with **WASHFest** reminders – that it's only a few weeks away (not that anyone forgets), that we need help setting up, running, and cleaning up before, during and after (of course, everyone pulls together to accomplish just that) so please contact Carol and let her know your availability (and everyone does)... yeah. Well, not this year.

But we really can't complain (outside of general griping about COVID). We got lucky; the timing was such that we had the only WPa Hamfest in 2020, so now, it's our turn. Even so, with so many other clubs postponing yet again for 2021, or cancelling their event outright for good... no one wants a one year hiatus, but there it is. We'll be back for 2022. And please, stay safe.

COVID permitting, with **Hamvention 2021** being cancelled, it looks like the next "big" hamfest in the area will be Breezeshooter's. (No disrespect intended to TRARC, but we haven't seen anything about their 2021 plans yet). And we just learned at deadline that the 2021 Breezeshooter's Hamfest has been cancelled. Nutz. Maybe Uniontown and/or Skyview? Butler?

So, you'll see month and in future months a lot more "For Sale" ads from club members than normal. No hamfests? No problem. We'll find a way... and did. (Caveat Emptor and all that.)

This year's **WASH 2 METER SIMPLEX CONTEST** was a LOT of fun, as usual. We expect to have the full results in the March newsletter.

We are still working through the kinks of the new WASHRag distribution list on Google Groups. Unfortunately, but under the circumstances, not entirely unexpected. (And it could have been a lot worse... cold comfort to some, we know) If you know of someone who didn't receive a newsletter since last December, or would like to be added to the list now, please have them email w3wn73@gmail.com and we will get them on or back on the list.

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

Minutes, January 7th Meeting

Dan Campbell K3CMU, Vice President/Secretary, WASH

Note: Due to the Pandemic Quarantine, this was a Zoom virtual meeting

Call to Order: 19:08. Presiding Officer: Tony Romano (KB3BYA)

Pledge of Allegiance, Moment of Silence for Silent Keys and others Deserving.

Roll Call: Members Present: 22

Committee Reports:

Treasurer: Mark Stabryla, (N3RDV): Report read. Motion to accept by Bob (N3RDG), second by Eric (K3SGT) and carried unanimously.

Secretary: Dan Campbell (K3CMU): No corrections to the minutes. Motion to accept: Carol (KB3GMN), Second: Curtis (KB3CMA), Carried.

Repeaters: Frank (N3FB): No report.

WASHNet: Charles (Chuck) Bihun, III (K3CELA): Doing well; needs volunteer net control operators for a few months.

Tuesday Night Net: Glen Roberts (KE7FD): Some activity.

Contests: Chuck (KC3ELA) reminded everyone that the WASH 2 meter simplex contest is this Saturday, 7 to 11 PM. Details on the club website.

Public Service: No Report

Newsletter: Ron Notarius (W3WN): Published.

Volunteer Examiners: Grant Olsen (KC3MLC): No report.

Ways & Means (including Member Contributions): Carol Danko (KB3GMN): WASHFest 2021 has been cancelled due to logistical issues.

Nominations for 2021 Club Officers: President: Tony (KB3BYA); Secretary: Dan (K3CMU); Nominations closed for November meeting; election in December.

President's Report - Tony Romano (KB3BYA): (none)

Old Business:

- Tower trailer storage:
- Bill (W3WH) found a location at near the Meadowlands with a \$400 annual rate. Motion to proceed with using this facility by Dan (K3CMU), second by Larry (K3VX). Discussion. Call for vote. Carried

New Business:

- Purchase of tongue lock and canvas cover to be explored for the tower trailer.
- Reminder that 2021 WASH club dues are now due.

Good of the Order: (none)

Adjournment: Motion Rich (N3SBF); seconded Larry (K3VX). Carried

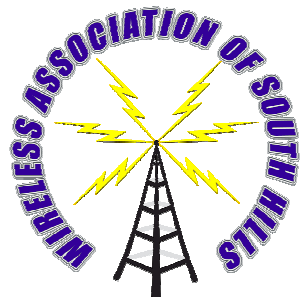
Adjourned: 19:54 hours



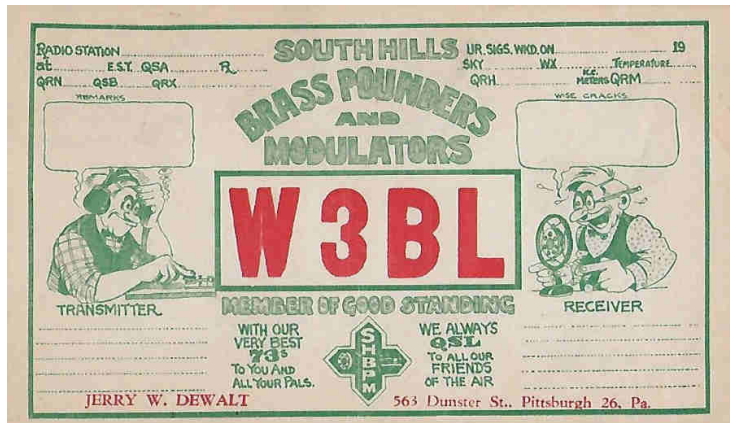
Another little piece of KDKA Centennial memorabilia: In 1973, this coin was commissioned to commemorate the 50th anniversary of the First Trans Atlantic broadcast, by KDKA in 1923.

Hmmm, seems like that's another Special Event we could have some fun with... just a thought...

Photo courtesy of and ©Copyright 2021 Pete Varounis NL7XM



WASH Spotlight: W3BL



Something a little different this month. Pete NL7XM sends along this undated old-style QSL card from a (then) member of the South Hills Brasspounders & Modulators. Pete indicated that the design is a "circa 1930's Eppers designed" card, although the "26" postal code is from many years later. Anyone know anything else about the call or the operator?

Photo courtesy of and © Copyright 2021 Pete Varounis NL7XM

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 **Eat'n Park**, 3380 Washington Road (US 19), McMurray. 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

2021	N3FB	KC3ELA	WASH FL	WASH TN	Silent
AA3XY	N3IDH	KC3MLC	KA3UPY/M	K3OL	Keys
K3CMU	N3RDG	N3DFK	W4ZE	KE3XB	AB3KA
K3GW	N3RDV	N3KFD	WASH NE	N3YPB	AB3ED
K3JDS	N3SBF	N8NEU	NØPEU	WASH TX	K3EED
K3SGT	N3ZK	N9SOJ	WASH OH	NB3C	K3LIE
K6DWR	N7TDX	NY9H	N8DPW	K3LGM	K3NMG
KA3VXM	W3WN	W3LE	WASH OR	KB3IJX	KB3ENX
KB3BYA	WA3PYU	W3WH	KB3NVL	Jane Wagner	KB3FNM
KB3CMT	WA3VSS	WA3WXR	KB3NVM	WASH VI	KB3FQT
KB3GMN	WB3CAI		WASH SC	NP2JF	KB3JHQ
KB3GMU	WB4GCS		N8NEU		N3BPB
KB3SQZ					N3CZZ
KC3GMM					N3FZ
KC3NPJ					N3HKQ
KC3OCT					N3KEH
KC4WTT					N3OBD
KE7FD					N3RNK
NØVLR					N3SKR
					N3SRC
					N3ZEL
					N3XFE
					W3ZLK
					WA3JPP

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

Through February 1st, 2021
List compiled by
Mark Stabryla N3RDV, Vice President/Treasurer

2021 WASH Upcoming Events Calendar

Club Meetings & Other Significant Events — Subject to Change

February 4 th	WASH Meeting	ZOOM MEETING
February 13 th	Breezeshooter's Groundwave Contest — CW	https://breezeshooters.org
February 20 th - 21 st	ARRL International DX Contest CW	http://www.arrl.org/
February 28th	WASHFest 2021	CANCELLED
March 4 th	WASH Meeting	ZOOM MEETING
March 6 th	Breezeshooter's Groundwave Contest — Voice	https://breezeshooters.org
March 6 th - 7 th	ARRL International DX Contest SSB	http://www.arrl.org/
March 13 th	Breezeshooter's Groundwave Contest — Digital	https://breezeshooters.org
March 27 th - 28 th	CQ WPX Contest SSB	https://www.cqwpix.com
April 1 st	WASH Meeting	ZOOM MEETING
May 6 th	WASH Meeting	ZOOM MEETING
May 21st - 23rd	Hamvention 2021	CANCELLED
May 29 th - 30 th	CQ WPX Contest CW	https://www.cqwpix.com
June 3 rd	WASH Meeting	ZOOM MEETING
June 5th - 6th	Breezeshooter's Hamfest 2021	CANCELLED
July 1 st	WASH Meeting	ZOOM MEETING
August 5 th	WASH Meeting	ZOOM MEETING
August 5 th	Uniontown ARC W3PIE 2021 Gabfest	433 Pittsburgh Road, Uniontown PA 15401
August 29 th	Skyview Radio Society Swap 'n' Shop 2021	Tentative pending official announcement

A Spool of Coax

Larry Comden K3VX

Pittsburgh, PA, January 25th, 2021 – I recently found a random spool of coax – **unmarked as to length or type**. There was a PL259 at one end and an open circuit at the other. I guessed the type from the diameter and solid dielectric as RG58.

Klein Tools VDV Distance Meter can measure the lengths of several different types of cable.

It relies on capacitance/foot, that is, it converts the measured capacitance divided by capacitance/foot to display the length, 74 feet for this spool. (Figure 1)

In free space a quarter wave 74 feet long would have a frequency of 1.66 MHz. But this is not free space. To find the electrical length, I treated the coax as unterminated quarter wave transformer.



The (theoretical) impedance at the open end is infinite – in real terms it is very large. One quarter wave along the coax it is transformed into a near zero impedance. The Rig Expert display shows 2.21 MHz. (Figure 2)

The ratio between the free space frequency and the frequency found above is the velocity factor of the coax. $1.66/2.21 = .75$ Clearly, something is WRONG! A solid dielectric RG58 should have a VF of 0.66.

Unrolling the coax, I measure 81 feet actual physical length, so the free space frequency should be 1.519 MHz and the VF is about 0.69, much closer the nominal value.

Using the Belden catalog for RG58 type coax, shows capacitance per foot ranging from the mid 20s to over 30. No wonder my cable length measuring device was off by 9 percent, since the real value was unknown. Belden give a specific part number to each variation.

Remember, there is no single spec for each RG type. It seems the type is more related to connector/adaptor sizes than anything else.



More Items For Sale

Bill Hill W3WH

Chartiers Township, PA, January 29th, 2021 – I still have the following for sale. The list does not include everything such as a few CW paddles, Butternut HF-6V, Spiderbeam 60 ft fiberglass mast and a Dentron Super Tuner. Details on these next month.

- LDG Z11 25 watt tuner \$75
- Hallicrafters S38EM, S38C S41W, S120. Includes a Variac. All for \$150
- Time Wave Antenna noise canceller-100
- RSP1A SDR RX \$50
- MFJ874 SWR/PWR meter 200W \$50
- LDG Antenna switch DTS-4 \$50
- DX Engineering RTR1A \$100
- Dentron Super tuner \$50

Thanks for looking.



Please Note: Photos are for illustrative purposes only and are not of the actual items for sale.

For Sale

Yaesu FTM-3200DR/DE C4FM FDMA/FM mobile rig

<https://www.yaesu.com/indexVS.cfm?cmd=DisplayProducts&ProdCatID=249&encProdID=1C299659CDFD4B56DDDBBA4BA23026510&DivisionID=65&isArchived=0>

New in Box

- Powerful and Rugged 65 Watt Transmitter
- 3 watts of crystal clear front panel audio
- Digital and Analog FM Capable
- Multi-colored BUSY/TX Indicator
- Digital Group Monitor Function

\$100 via PayPal, cash, check

Paul Lusardi NØVLR

Paul.lusardi@outlook.com 724-809-1463



For Sale

Last chance before online auction site(s)! If you're interested but it's the wrong time of the month or week, I'm flexible. I'll make you an offer you can't refuse.

1. An unused TYT TH-9800 PLUS Version Quad Band (10m, 6m, 2m, 70cm) Cross-Band 50W Mobile Radio. It was intended for my cross-country trip which never happened; it's still in the box with all the goodies, including the programming cable. \$200
2. Also for sale is my QRP Go-kit which is in a black padded weather resistant case. It includes the following:
 - * [HF radio] CS108GPlus; 20W, SSB, CW, AM; 160-10M, internal keyer, Mic, etc..
 - * ZM-2 Antenna tuner
 - * QRP style memory keyer
 - * Bioenno Power 12v/3Ah rechargeable battery Power poles installed.
 - * All works great. Pictures upon request.
 - * \$180
3. And finally, a Heath full legal limit roller inductor antenna tuner. Has 3-position antenna switch, built-in SWR meter and new knobs (and the old knobs too). \$180



All items are local (we can meet somewhere) but plus shipping if applicable. Offering to readers of the Newsletter, before posting online.

Glen Roberts KE7FD goroberts@gmail.com

Hamvention 2021 Cancelled

Dayton Hamvention Executive Committee

Dayton, OH, January 11th, 2021 – Unfortunately, several setbacks in the recovery from the COVID-19 pandemic make necessary the difficult decision to cancel Hamvention 2021. Hundreds of volunteers have been working to do everything necessary to bring this Hamvention to the many amateur radio enthusiasts and vendors who support the Dayton Hamvention.

Vaccine distribution both in the United States and around the world is lagging behind what was planned. In addition, the emergence of a more communicable form of the COVID-19 virus increases the potential for further public health problems in the next few months. We make this difficult decision for the safety of our guests and vendors.

Those who had their tickets, inside booths or flea market spaces deferred last year will be deferred again. Those who purchased 2021 tickets, inside booths or flea market spaces will also be deferred. If you desire a refund instead please email tickets@hamvention.org and we will contact you.

Stay tuned for information about a QSO party for the 2021 Hamvention weekend.

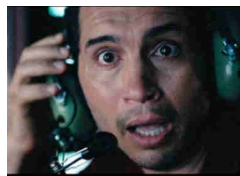
We are looking forward to the 2022 Hamvention!!!



The Horror of SuitSat

American Radio Relay League

Newington, CT, January 25th, 2021 – SuitSat makes an appearance in a new [video short](#) sci-fi thriller, called *Decommissioned*. "Inspired by true events," the video short resurrects the 2006 spacesuit/satellite that transmitted messages on 2 meters as it circled Earth. The original SuitSat-1 project, conceived by an Amateur Radio on the International Space Station (ARISS) team, repurposed a decommissioned Russian Orlan spacesuit to function as a free-floating amateur radio transmit-only satellite.



"ARISS designed and built an antenna and radio gear that got approved for installation into the suit, and cosmonaut Valeri Tokarev and Commander Bill McArthur KC5ACR, put SuitSat-1 into orbit at the start of a spacewalk," ARISS-US Delegate for ARRL Rosalie White K1STO, recounted. SuitSat-1 transmitted a voice message, "This is SuitSat-1 RS0RS!" in several languages, plus telemetry and a slow-scan TV image on an 8-minute cycle as it orbited Earth.

In the 6-minute film, a SuitSat returns in the future to haunt International Space Station Commander Diaz, played by Joey Vieira. Diaz is seen taking photos from inside an observation dome on the ISS when he spies some distant space debris and radios Houston to express concern.



"If there was any cause for alarm, you know we'd see it too," Houston assures him.

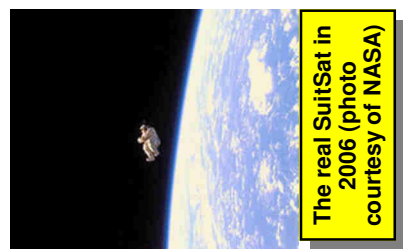
As the object closes in, an increasingly anxious Diaz recognizes the "debris" as SuitSat. "This is SuitSat," comes a voice on the ham radio.

"Houston, you're not gonna believe this. We're picking up transmissions on the ham radio that sound identical to the SuitSat experiment," he tells a skeptical mission control. "It's SuitSat! I'm seeing SuitSat!"

"SuitSat re-entered the atmosphere and burned up years ago," mission control responds. "It's impossible."

Decommissioned was produced by Perception Pictures and directed by Australian filmmaker Josh Tanner. He [told](#) Gizmodo that he produced the video "using the Unreal Engine technology that *The Mandalorian* used, albeit old-school rear projection, as opposed to the fancy LED wall tech they used."

A [short video](#) shows how *Decommissioned* was made.



SuitSat-1 -- called *Radioskat* or Radio Sputnik in Russian -- was so successful that another unneeded Orlan spacesuit was subsequently refitted as SuitSat-2.

As an interesting sidebar with respect to the real SuitSat, White explained, "After the ARISS engineers calculated SuitSat-1's orbit and spin characteristics, they knew the legs and arms would have to be filled with something, so they asked the crew to stuff dirty laundry inside."

The original SuitSats were deorbited to burn up in Earth's atmosphere after their useful lives ended.

ARRL is a partner in the ARISS program, which has kept amateur radio on the air from the International Space Station for 20 years. A hallmark of the ARISS program is the scheduled ham radio contacts between ISS crew members and earthbound schools and student groups.

ARRL Board of Directors to Reconsider the Use of Electronic Balloting

American Radio Relay League

Newington, CT, February 1st, 2021 –The ARRL Board of Directors will look into the use of electronic balloting systems "to augment paper balloting for ARRL elections." The Board instituted a hybrid paper and electronic balloting process in the fall of 2012, which was popular among those who took advantage of it, but overall voter participation declined significantly, and the Board's Ethics and Elections Committee decided in 2015 to return to using solely paper ballots. The Ethics and Elections panel said continuing changes in technology, the acceptance of remote meetings, and significant advancements in voting processes since then have made electronic balloting worth a second look.

"Electronic balloting is now in common use among professional organizations," the Board said. "Using electronic balloting would be of benefit to members who find paper ballots difficult to use. Providing electronic balloting as an alternative to paper balloting may result in a cost savings to the organization and decrease delays and potential conflicts over delays of paper ballots. It is likely, also, that the use of online balloting will be attractive to younger members who are more accustomed to online transactions."

The Board directed its Administration & Finance Committee to investigate the state, cost, and availability of commercial electronic balloting services as a member-selected alternative to paper ballots distributed and collected via the postal service. The committee will report back to the Board within a year.



FCC Enforcement Advisory: Amateur & Personal Radio Services Licensees & Operators May Not Use Radio Equipment to Commit or Facilitate Criminal Acts

Chief, Enforcement Bureau, Federal Communications Commission

DA-21-73

Washington, DC, January 17th, 2021 – The Enforcement Bureau (Bureau) of the Federal Communications Commission issues this Enforcement Advisory to remind licensees in the Amateur Radio Service, as well as licensees and operators in the Personal Radio Services, that the Commission prohibits the use of radios in those services to commit or facilitate criminal acts.

The Bureau has become aware of discussions on social media platforms suggesting that certain radio services regulated by the Commission may be an alternative to social media platforms for groups to communicate and coordinate future activities. The Bureau recognizes that these services can be used for a wide range of permitted purposes, including speech that is protected under the First Amendment of the U.S. Constitution. **Amateur and Personal Radio Services, however, may not be used to commit or facilitate crimes.**

Specifically, the Bureau reminds amateur licensees that they are prohibited from transmitting “communications intended to facilitate a criminal act” or “messages encoded for the purpose of obscuring their meaning.” Likewise, individuals operating radios in the Personal Radio Services, a category that includes Citizens Band radios, Family Radio Service walkie-talkies, and General Mobile Radio Service, are prohibited from using those radios “in connection with any activity which is against Federal, State or local law.” Individuals using radios in the Amateur or Personal Radio Services in this manner may be subject to severe penalties, including significant fines, seizure of the offending equipment, and, in some cases, criminal prosecution.

Media inquiries should be directed to 202-418-0500 or MediaRelations@fcc.gov.

To file a complaint with the FCC, visit <https://consumercomplaints.fcc.gov> or call 1-888-CALL-FCC. To report a crime, contact your local law enforcement office or the FBI.

To request materials in accessible formats for people with disabilities (Braille, large print, electronic files, audio format), send an e-mail to fcc504@fcc.gov or call the Consumer & Governmental Affairs Bureau at (202) 418-0530 (voice), (202) 418-0432 (TTY).



FCC Invites Comments on Expanding the Number of Volunteer Examiner Coordinators

American Radio Relay League.

Newington, CT, January 8th, 2021 – In a January 5th **Public Notice**, the FCC requested comments on whether the current 14 Volunteer Examiner Coordinators (VECs) are sufficient to facilitate the efforts of their accredited Volunteer Examiners (VEs) in administering amateur radio examinations, or whether up to five additional VECs should be authorized. The ARRL VEC is the largest of the 14 VECs in the US. Comments are due by February 5th, and reply comments are due by February 19th. After Congress authorized it to do so, the FCC adopted rules in 1983 to allow volunteers to prepare and administer amateur radio examinations, and it established the system of VECs and VEs.

“VECs introduced consistency into the volunteer examiner program by centralizing accreditation of volunteer examiners, coordinating the dates and times for scheduling examinations, and managing the various administrative tasks arising from examinations,” the FCC said. Authorized VECs may operate in any of the 13 VEC regions but must service at least one region. The FCC pointed out that some VECs now offer remote examinations.

“The Commission has long maintained 14 VECs and now seeks to consider whether they continue to serve the evolving needs of the amateur community, or whether there are unmet needs that warrant considering expanding the number of VECs.”

The FCC **Public Notice** provided questions for framing comments:

- Are the existing 14 VECs sufficient to coordinate the efforts of Volunteer Examiners in preparing and administering examinations for amateur radio operator licenses, or are additional VECs needed?
- What needs are currently being met, and which needs, if any, are not?
- If the FCC were to allow additional VECs, how many more would be needed to satisfy existing Amateur Radio Service license examination needs? (The FCC indicated that it will likely cap the number of additional VECs at five.)
- Given that VECs use a collaborative process to create examination question pools and volunteer examination administration protocols, would additional VECs enhance or hinder this process?
- How would increasing the number of VECs address the unmet needs, if any, of the amateur radio community, and what obstacles or complications could result from increasing the number of VECs?

Interested parties may file short comments on WT Docket No. 21-2 via the FCC's **Electronic Comment Filing Service (Express)**. Visit the FCC's **“How to Comment on FCC Proceedings”** page for information on filing extended comments.



On Saturday, February 13th, many of us would in better times be hanging out and meeting friends at the Orlando HamCation. With COVID this of course will not be happening this year, but as part of the virtual HamCation experience, the Florida Contest Group and the Orlando Amateur Radio Club are hosting the HamCation QSO Party, an on-the-air event to do our best to fill that void. (And yes, we're following in the footsteps of the Dayton Hamvention's QSO Party, which they did last May and will be doing so again this year.)

The HCQP will run from 1500Z Saturday to 0300Z Sunday, i.e. 10 am to 10 pm EST. Anybody can work anybody. The exchange is Name, QTH, and in a gentle way to rub in how nice it can be in Florida at this time of year, the temperature at your QTH.

Full details are on the HamCation web site, www.hamcation.com

We hope you'll join us on the 13th for a fun day of contest activity!



73 - Chris Plumblee W4WF, President, Florida Contest Group

WSJT-X 2.3.0 GA Release

WSJT Development Group

Princeton, NJ, February 1st, 2021 – The WSJT Development Group is pleased to announce the general availability (GA) release of WSJT-X Version 2.3.0.

A summary of new features can be found in the WSJT-X 2.3 User Guide here: https://physics.princeton.edu/.../wsjtx-main-2.3.0_en... You may also wish to consult the Release Notes: https://physics.princeton.edu/pulsar/k1jt/Release_Notes.txt... where the first several sections at the top contain a list of all important program changes since the GA release of WSJT-X 2.2. Upgrading from earlier versions of WSJT-X should be seamless.

There is no need to uninstall a previous version or move any files. Links to installation packages for Windows, Linux, and Macintosh are available here: <https://physics.princeton.edu/pulsar/k1jt/wsjtx.html> You can also download the packages from our SourceForge site: <https://sourceforge.net/projects/wsjtx/files/> It may take a short time for the SourceForge site to be updated.

You may be interested to know that, somewhat unusually, a release candidate for Version 2.4.0 of WSJT-X will also be made available very soon. Its main new feature is a new mode called Q65 with unique capabilities for EME and scatter propagation modes.

WSJT-X is licensed under the terms of Version 3 of the GNU General Public License (GPL). Development of this software is a cooperative project to which many amateur radio operators have contributed. If you use our code, please have the courtesy to let us know about it. If you find bugs or make improvements to the code, please report them to us in a timely fashion. We hope you will enjoy using WSJT-X Version 2.3.0.

— 73 from Joe K1JT; Bill G4WJS; Steve K9AN; and Nico IV3NWV for the entire WSJT Development Group

Installation packages for WSJT-X 2.3.0

Windows: (Windows 7, Windows 8, and Windows 10)

- ♦ Version 2.3.0: [wsjtx-2.3.0-win32.exe](#).
- ♦ Version 2.3.0: [wsjtx-2.3.0-win64.exe](#).

Macintosh macOS:

Installation instructions for version 2.3.0 can be found [here](#) in the User Guide.

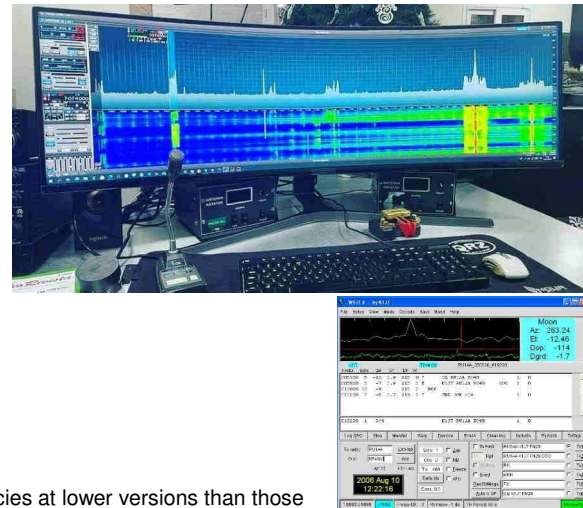
- ♦ Version 2.3.0 for macOS 10.13 and newer: [wsjtx-2.3.0-Darwin.dmg](#)

Linux:

Installation instructions for Linux can be found [here](#) in the User Guide. Download the package file appropriate for your system, from the list below. (Versions installable with "apt-get" and "yum" will be made available as soon as our package maintainers create the packages.)

- ♦ Debian, Ubuntu 18.04 LTS (32-bit): [wsjtx_2.3.0_i386.deb](#)
- ♦ Debian, Ubuntu 20.04 LTS (64-bit): [wsjtx_2.3.0_amd64.deb](#)
- ♦ Fedora 30, RedHat, (32-bit): [wsjtx-2.3.0.i686.rpm](#)
- ♦ Fedora 33, RedHat, (64-bit): [wsjtx-2.3.0.x86_64.rpm](#)
- ♦ Raspberry Pi OS Buster, ARMv6, [wsjtx_2.3.0_armhf.deb](#)
- ♦ Raspberry Pi OS Buster, arm64 (64-bit): [wsjtx_2.3.0_arm64.deb](#)

Note: these packages are unlikely to install properly on Linux distributions with required dependencies at lower versions than those on the named distributions. In such cases building from source is the correct way to install WSJT-X 2.0.



ARRL Seeks Nominations for Seven Awards

American Radio Relay League

Newington, CT, January 4th, 2021 – ARRL invites nominations for awards that recognize excellence in amateur radio educational, technological, and public relations pursuits. Nominations are also open for the Hiram Percy Maxim Award, ARRL's premier award to honor a young licensee.

The Hiram Percy Maxim Award

The Hiram Percy Maxim Award is the premier honor for a radio amateur and ARRL member younger than 21 whose accomplishments and contributions are of the most exemplary nature within the framework of amateur radio activities. Nominations must be made through your ARRL Section Manager, who will forward nomination to ARRL Headquarters by March 31st, 2021. Nomination forms and supporting information should document as thoroughly as possible the nominee's amateur radio achievements and contributions during the previous calendar year.

The ARRL Herb S. Brier Instructor of the Year Award

This award honors an ARRL volunteer amateur radio instructor or professional classroom teacher who uses creative instructional approaches and reflects the highest values of the amateur radio community. The award highlights quality of — and commitment to — licensing instruction. Nominations are due by March 15th, 2021.

Technical Awards

- The ARRL Microwave Development Award pays tribute to a radio amateur or group of radio amateurs who contribute to the development of the amateur radio microwave bands. The nomination deadline is March 31st, 2021.
- The ARRL Technical Service Award recognizes a radio amateur or group of radio amateurs who provide amateur radio technical assistance or training to others. The nomination deadline is March 31st, 2021.
- The ARRL Technical Innovation Award commends a radio amateur or group of radio amateurs who develop and apply new technical ideas or techniques in amateur radio. The nomination deadline is March 31st, 2021.

The Knight Distinguished Service Award

The Knight Distinguished Service Award honors exceptional contributions by an ARRL Section Manager to the health and vitality of ARRL. The nomination deadline is April 30th, 2021. It was named for Joe T. Knight W5PDY (SK), who was commended for his exemplary service not only as ARRL New Mexico Section Manager for more than a quarter-century, but for his willingness to share his knowledge and leadership skills.

Philip J. McGan Memorial Silver Antenna Award

The ARRL Public Relations Committee invites nominations for the Philip J. McGan Memorial Silver Antenna Award. This award recognizes and honors the efforts of an ARRL member-volunteer who demonstrates success in amateur radio public relations and creates greater awareness and understanding for amateur radio through efforts focused on the media and general public. The nomination deadline is May 14th, 2021.

The ARRL Board of Directors makes the final determination of award recipients. Winners typically are announced following the Board's July meeting. [More information](#) about these awards is on the ARRL website, or [contact](#) Steve Ewald WV1X, at ARRL Headquarters (telephone 860-594-0265).



Intrepid-DX Group Invites Nominations for Intrepid Spirit Award

The Intrepid-DX Group Press Release

San Jose, CA, January 24th, 2021 – The Intrepid-DX Group is seeking nominations for the individual or group that most displayed their "Intrepid Spirit" this past year. The Intrepid Spirit for purposes of this award is defined as:

An Intrepid Spirit is bold, courageous, dedicated, innovative, fearless, generous, resolute and visionary in their approach to Amateur Radio. We want to recognize those individuals or groups that activated the rare, difficult and dangerous places.

We are seeking to make this award to the group or individual that most displayed their intrepid spirit in 2020, by expressing an unshakable commitment to the Amateur Radio DX Community.

This award is made in memory of our friend, James McLaughlin WA2EWE/T6AF. SK, Kabul Afghanistan, April 27th, 2011.

Nominations may be submitted via email to: intrepiddxgroup@gmail.com

All nominations must be received by February 15th, 2021. The Board of Directors of the Intrepid-DX Group will evaluate the nominations and the award will be presented in May 2021.

The Intrepid-DX Group was formed in 2010 following our successful Dxpedition to Iraq.

You can view our website at <http://www.intrepid-dx.com/awards.php>

Thank you, Paul Ewing N6PSE, President and Founder, The Intrepid DX Group



Croatia has joined the small number of countries to allow operation on the new 40 MHz (8-meter) band. Dragan Mojsilovic 9A6W, reports that national telecom authorities there have granted him a 1-year experimental license to operate from 40.660 MHz to 40.700 MHz, in the Industrial, Scientific, and Medical (ISM) band.

Croatia becomes the fifth country to offer at least some operating authority in the band. Ireland, Slovenia, and South Africa already have 40 MHz allocations, while Lithuania has allocated spot frequencies for experimental purposes.

The EI7GL blog offers [more information](#). — Thanks to Southgate Amateur Radio News

The European Union DX Contest Club (EUDXCC) has announced the debut of the European Union DX Contest February 6th – 7th, and on the first full weekend of February thereafter, starting at 1800 UTC on Saturday and ending at 1800 UTC on Sunday. A variety of operating categories are offered, including SWL, and everybody works everybody.

Given the COVID-19 pandemic, the sponsors say that the multi-multi category will be a multi-transmitter distributed category, with no more than six transmitted signals (one per band) at any time from stations in different locations.



Another morning hoarfrost picture from Carl Keller KC3KFW, courtesy of Bud Plants N3TIR

DX News Briefs



KH0/KC0W has announced that he now has a 160 meter antenna up, and is now operational on FT8. Initial testing shows contacts as far east (for Tom) as Connecticut and as far west as Italy.

HB9WDF is now QRV as 8Q7AO from Vilamendhoo Island (AS-013) through February 7th, holiday style. More information at <https://www.michi-dani.ch/amateurfunk/dx-pedition/8q7ao-maldives-2021/> (note: 8Q7AO is a reissued call)

5UAIHM is currently QRV, primarily on 20 meters at about 1700 Z, until mid-February. (Yes, that is the correct call as issued.) QSL via F4IHM.

YI9WS will be returning home as his mission ends sometime in March. He remains active as time permits, but may suddenly have to interrupt due to demands of his military mission. He request that callers avoid duplicating QSOs and be patient as he fights local QRM. QSL via IK5SRF

3W9FAR is currently QRV from Da Nang through sometime in March. QSL via SP5FAR.

J28PJ has announced that after 5 years, his stay will end at the end of June. He expects his next activity to be from a West Africa IOTA location. QSL via F1TMY

Members of the Kuwait Amateur Radio Society are QRV as the special event call—9K60NLD throughout February, to celebrate Kuwait's 60th National Day (February 25th) and Liberation Day (February 26th). QSL via 9K2RA. Note: All Kuwaiti amateur radio operators are allowed to use the special prefix "9K60" during February. QSL as directed.

CS7AMN will be QRV as C91BVA starting 18 February. QSL via CS7AMN

PJ2/DK5OK will be QRV from Curacao 4 – 23 March, 80 – 6, CW SSB and multiple digital modes. QSL via DK5ON.

JH3QFL expects to be QRV as JD1BQA from Ogasawara AS-031, 1 – 7 May, 160, 80, 40 & 6. QSL via JH3QFL

Members of Hellenic Amateur Radio Association of Australia (HARAOA) are planning to activate Mellish Reef (VK9/M) [OC-072] & Willis Island (VK9/W) [OC-007] possibly sometime in October. A permit application with Parks Australia (Australian Government department) is underway as a general use permit is required to "camp" at these Australian coral sea marine parks. They plan to have seven operators and will be active on 160–10 meters using CW, SSB and FT8, with four transceivers with amps into verticals and VDAs (Vertical Dipole Array). They expect to renew and use as calls VK9HR on Willis Island, and VK9IR on Mellish Reef. They are also trying to obtain a landing permit for Macquarie Island (VK0M) but that this process is proving to be much more difficult and may not be possible, as the island is a protected nature preserve. Updates and more information available at <http://www.haraoa.com>

QSL Routes

3B8CW via N4GNR	C91BVA via CS7AMN	LZ5R via LZ1YQ
3G3G via EA5GL	CE2SV via N7RO	LZ9V via LZ1WG
3V8SF via LX1NO	CO6XE via EA7FTR	OD5PY via KU9C
4L2M via EA7FTR	D4Z via IK2NCJ	OG7A via OH6MW
524PA via M0URX	DC220GERKE via	OH0W via OH2BH
7A1A via EA7FTR	DJ6SI	OP4W via ON4BWT
7X2HF via EA5GL	DQ4W via DK9TN	OR7R via ON4LG
7X2TT via EA5GL	EI6KX via G3NKC	P3X via UT5UDX
8P1W via KU9C	ES7A via ES7GM	PA6X via PA7CW
8P6ET via KU9C	GB75ISWL via G6XOU	PJ4A via K4BAI
8Q7AO via HB9WDF	GM4AFF via GM4FDM	RL3A via W3HNK
8S8S via SM5XSH	HC1HC via NE8Z	SK3W via SM5CCT
9A2KD via NR0T	HC1M via EC5R	SM2U via SM0CXU
9A5USA via EB7DX	HC1Y via EC5R	SN2B via SP3CGK
9G1SD via AB0GC	HC5DX via W3HNK	TM9CR via F1CEP
9G2DX via EA5GL	HG4I via HA5LN	UN9L via LZ1YE
9K2BS via EC6DX	HG7T via HA7TM	V51DM via DK3ZL
9K2GS via EC6DX	IQ5WT via 9A8MDC	Z36W via Z33Z
9K2OW via EC6DX	J73HA via W2GBX	ZF1EJ via K6AM
9K60NLD via 9K2RA	JD1BQA via JH3QFL	ZF2LC via W2SM
AX3ZZX via VK3ZZX	KH7A via JA5DQH	ZF5T via K5GO
AX4WDM via VK4WDM	KP2B via EB7DX	ZL1A via ZL3CW
C31CT via EA3QS	LX40DA via LX1DA	

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



WASH Classifieds

Information shown here is as supplied to the **WASHRag**. Condition as stated, and all sales should be considered "as-is" unless otherwise noted. All subject to prior sale or withdrawal from sale at the owner's discretion. All responsibility for this information lies with the source and not the **WASHRag** or the **WIRELESS ASSOCIATION OF SOUTH HILLS, INC.**

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Antenna Zoning or PRB-1 Issues?

Contact: **Michael S. Lazaroff K3AIR, Esquire**

Lazaroff & Suhr, Attorneys at Law

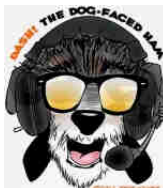
277 West Main Street, Saxonburg, PA 16056

Phone: 724-352-4905

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

Find the online cartoons and stories of Dash the Dogfaced Ham & more at <https://www.jeffk1nss.com>!

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



US Amateurs by Class as of February 1st, 2021:

Novice	8,287
Technician	424,418
General	190,805
Advanced	39,142
Extra	156,877
Club	12,575
Total	832,104

All-Time High 01/28/2021 832,287

Last 90 Days:	New Amateurs	7,955
	Callsign Changes	2,749
	Class Changes	2,943
	No Longer Licensed	5,076
	All Updates (*)	31,701

(*) Includes renewals, address changes, etc.

Information gathered from FCC Daily Updates, courtesy of Hamdata.com

Latest Region 3 Sequential Calls Issued as of February 1st, 2021:

Group A	AC3HB
Group B	KF3EU
Group C	(none available / all issued)
Group D	KC3RCK

Information gathered from FCC Daily Updates, courtesy of Hamdata.com

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

Just send an email to w3wn73@gmail.com and we will take care of the rest!



FCC News

Courtesy of the American Radio Relay League

Newington, CT, January 22nd, 2021 – President Joseph Biden designated FCC Commissioner Jessica Rosenworcel as acting chair of the FCC. She succeeds, at least temporarily, former FCC chair Ajit Pai, who resigned effective on January 20th.

"I am honored to be designated as the Acting Chairwoman of the Federal Communications Commission by President Biden," Rosenworcel said in a statement. "I thank the President for the opportunity to lead an agency with such a vital mission and talented staff. It is a privilege to serve the American people and work on their behalf to expand the reach of communications opportunity in the digital age."

Prior to joining the FCC, she served as Senior Communications Counsel for the United States Senate Committee on Commerce, Science, and Transportation. Before entering public service, she practiced communications law in Washington, DC.

The newest FCC commissioner, Nathan Simington, a Republican appointee, said Rosenworcel "brings deep knowledge and experience and highly informed judgment to her new position," and he expressed appreciation that the Biden Administration acted promptly to establish FCC leadership by "selecting such a distinguished public servant for this vital role."

Fellow Democrat Geoffrey Starks said Rosenworcel "has been a passionate advocate for bringing the benefits of broadband to all Americans — particularly our children." He said her designation as acting chair "comes at a critical juncture for the Commission, as COVID-19 has made bold action to end internet inequality more vital than ever."

The Commission's other Democratic appointee, Brendan Carr, called Rosenworcel "a talented and dedicated public servant, as evidenced by her 8 years of distinguished service on the FCC."

On Twitter, Rosenworcel said, "The future belongs to the connected," and she described herself as an "impatient optimist, mom, wife, [and] inveterate coffee drinker."

On January 14th, the Federal Communications Commission fined a robocaller \$9,918,000 for illegally using caller ID spoofing with the intent to cause harm. This individual made thousands of spoofed robocalls targeting specific communities with harmful pre-recorded messages. The robocalls included xenophobic fearmongering (including to a victim's family), racist attacks on political candidates, an apparent attempt to influence the jury in a domestic terrorism case, and threatening language toward a local journalist. The caller used an online calling platform to intentionally manipulate caller ID information so that the calls he was making appeared to come from local numbers—a technique called "neighbor spoofing."

"The law is clear: spoofed caller ID robocalls used with the intent to defraud, cause harm, or cheat recipients is unlawful. And the American people are sick and tired of it. In this instance, not only were the calls unlawful, but the caller took them to new levels of egregiousness," said FCC Chairman Ajit Pai. "With today's fine, we once again make clear our commitment to aggressively go after those who are unlawfully bombarding the American people with spoofed robocalls."

The caller made unlawful, spoofed robocalls to different communities around the country in 2018, motivated by an intent to cause harm to these communities and gain media notoriety and publicity for his website and personal brand. The FCC, Federal Trade Commission, and local law enforcement all received numerous complaints from consumers about apparently spoofed robocalls from this caller. The Truth in Caller ID Act prohibits manipulating caller ID information with the intent to defraud, cause harm, or wrongfully obtain anything of value.

In Iowa, he spoofed a local number to robocall residents of the town of Brooklyn and surrounding areas with xenophobic messages referring to the arrest of an illegal alien for the murder of a local college student. In Idaho, he robocalled residents of the city of Sandpoint, attacking the local newspaper and its publisher after they reported the identity of the caller. In Virginia, he made spoofed robocalls to residents of Charlottesville based on a false conspiracy theory in an apparent attempt to influence the jury in the murder trial of James Fields, prompting the judge to explicitly instruct the jury pool to ignore the calls. In Florida and Georgia, he made spoofed robocalls attacking gubernatorial candidates.

The Forfeiture Order is available at: <https://docs.fcc.gov/public/attachments/FCC-21-16A1.pdf>.

Has Roadway found the tower yet?



WASHfest 2022

The South Hills Hamfest — Now in our **TWENTY SIXTH** big year!
Sponsored by the WIRELESS ASSOCIATION OF SOUTH HILLS AMATEUR RADIO CLUB, INC.

Sunday, February 27th, 2022
8:00 AM until 3:00 PM Rain or Shine (or Snow!)

Home Economics Building, South Park

3735 Buffalo Drive, South Park Township, PA 15129

Behind the Allegheny County Police Station on Brownsville Road

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

Donation \$5



(800) 545-8881

Breakfast & Lunch will be available!



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

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

First Prize: To Be Announced

Second Prize: To Be Announced

Third Prize: To Be Announced

Additional Hourly Door Prizes! 2 Special Black Box Prizes (Separate Drawing)!

Main Prize tickets are \$2.00 each, 3 for \$5.00, 7 for \$10, 15 for \$20, 40 for \$50, 90 for \$100

All Prizes Subject to last-minute changes

For Table Reservations, or More Information, Please Contact:

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

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

Please Note: Early Table Reservations must be paid in full on or before January 31st, 2022.

Reservations received after February 1st, 2022 must include payment in full.

Reserve now... we have sold out in advance eleven years running!

Hamfest Table Reservation Form—Please PRINT LEGIBLY ALL INFORMATION

Name: _____ Email: _____

Address: _____ Phone: () _____ - _____

City: _____ State: _____ Zip: _____

Call Sign: _____

Tables WITH Electricity: _____ X \$15.00 = _____

Tables WITHOUT Electricity: _____ X \$12.00 = _____

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

Please make all checks payable to:
WIRELESS ASSOCIATION OF SOUTH HILLS
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We reserve the right to resell any tables not occupied by 8 AM, unless prior arrangements have been made!



WIRELESS ASSOCIATION OF SOUTH HILLS, INC.

Membership Application, New or Renewal



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

(check quarter _____)
(check one)

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



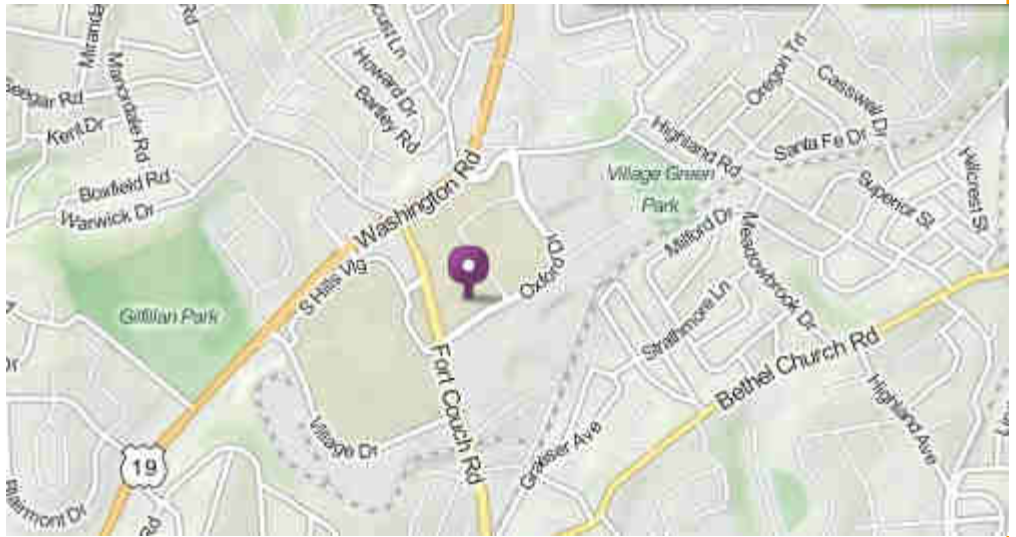
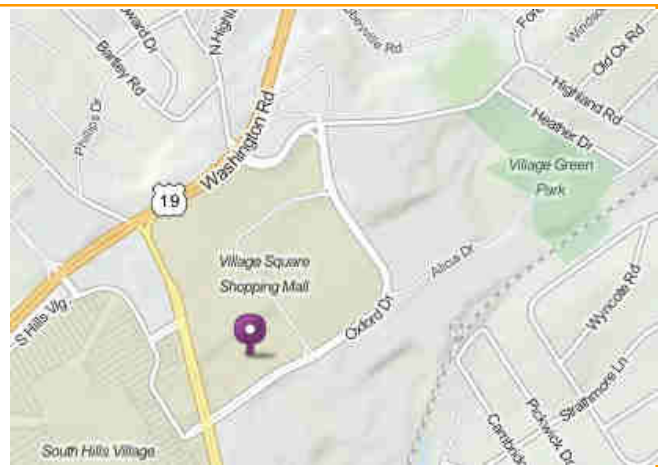
2021 WASH Meeting Location (*)

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

(*) whenever we can meet in person again, that is



The WASHRag

Wireless Association of South Hills, Inc.

Ron Notarius W3WN, Editor

3395 Rosewood Drive

Castle Shannon, PA 15234-2546



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