

WASHRAGTM



VOLUME 25 Issue 03
MARCH 2023

Wireless Association of South Hills

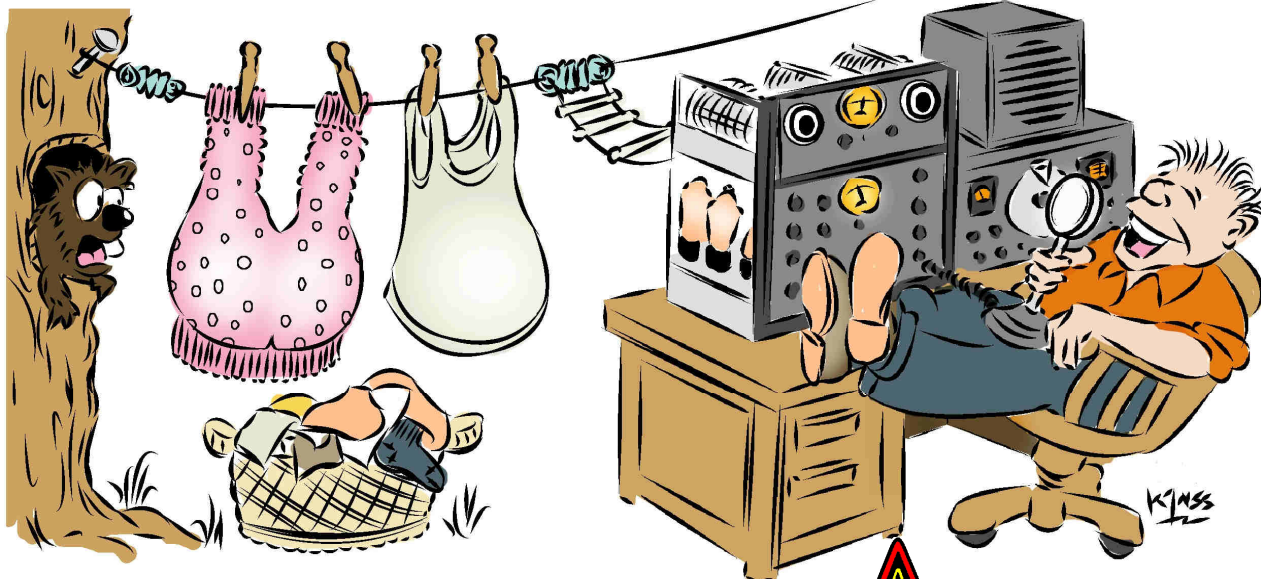


N3SH WA3SH NP2SH/B

www.n3sh.org



Wireless Association of South Hills



WASHRAG™



VOLUME 25 Issue 03

MARCH 2023

Next Monthly Meeting: Thursday, March 2nd, 2023

The next scheduled meeting of the WIRELESS ASSOCIATION OF SOUTH HILLS, INC. will be on **Thursday, March 2nd, 2023**, starting at 7 PM, at **PANERA BREAD Galleria Mall**, 1500 Washington Road, Mt. Lebanon PA 15228. Room will be available to us starting at 6:30 PM for anyone who'd like to get dinner, or just nosh, before the meeting

Topics Include: **WASHFest 2023** wrap-up, Field Day 2023, **WASH** 2023 planning, and more.

See you there!

Cover: Two views of the floor from WASHFest 2023. Are you in these pictures? (And if so, are you Waldo?)

Photo courtesy of and © Copyright 2023 Ron Notarius W3WN

WASH 2023 OFFICERS

EXECUTIVE COMMITTEE:

| | |
|----------------|----------------------|
| President | Curtis Turner KB3CMT |
| VP / Secretary | Nathan Suehr KC3GMM |
| 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 KC3MLC |
| Webmaster | Curtis Turner KB3CMT |
| Quartermaster | Harold Rosenberger K3HCR |
| WASH FM Net Manager | Chuck Bihun KC3ELA |
| WASHFest 2022 Committee | Glenn Roberts KE7FD, Co-Chair |
| | Bill Hill W3WH, Co-Chair |
| | Paul Lusardi NØVLR, Co-Chair |
| Activities & Operating Events | Rick Bell KB3IAC |
| Ways & Means | Carol Danko KB3GMN |
| WASH 2M Contest Chair | Chuck Bihun KC3ELA |
| Field Day 2022 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, 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 TBD

The Next WASH VE exam session will be on **Saturday, February 26th, 2023, 10:00 AM**, at **Home Economics Building, South Park**, 3735 Buffalo Drive, South Park Township, during **WASHFest 2023**. Talk-in on the 146.955 MHz repeater. All examiners are ARRL VEC affiliated.

The dates and locations for upcoming VE Exams have not been set yet.

As soon as the information is available, it will be published in the newsletter and on the N3SH website.

Thank you for your patience!

Pre-registration is encouraged. Walk-ins taken on a space/time available basis.

If you plan on attending the test session, please contact VE Team Liason Grant Olson KC3MLC: kgo@grant-olson.net

Please bring the following to your test session:

Curtis's Reflections



With March coming in leaves us closing out the **WASHFest**. It was once again a great year. I would like to extend many thanks to Carol and Richie for carrying most of that burden. I would also like to thank Nate, Tony and anyone else that helped with the food side of things, Grant, Bill, Dave and others with the VE sessions, Chuck and Charmel with the tickets, Mike and Kathy with the door, Glen, Jeff and all the others I maybe missing or that I just did not cross paths with earlier or later on both days. With out folks pitching in these events could not occur.

Our next meeting is Thursday March 2nd at Panera Bread in the Galleria Mall 1500 Washington Road.

Agenda items include **WASHFest** report, Financial report, and President's report.

— 73, Curtis Turner KB3CMT

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

The Rabid Raccoon 100 Ultra Marathon, which will take place in Raccoon Creek State Park on March 18th & 19th, is in need of additional Amateur Radio Operators to man the aid stations, provide updates on runner's progress, and provide other related communications.

For more information or to sign up, please visit w3kwh.net/Rabid, or email Christine N3LRG at n3lrq@w3kwh.com

Reminder: The March WASH Meeting location will again be Panera Bread at the Galleria Mall, 1500 Washington Road (US 19) in Bethel Park. Meeting begins at 7 PM; the room is available to us starting at 6:30 PM. Remember, our hosts are letting us use the meeting room gratis, so please return the favor and grab a bite or a sandwich or dinner before the meeting begins!

WASHFest 2023 looks like it was another great success! Thanks to everyone... everyone who worked behind the scenes, everyone who helped setup and tear down, every vendor who manned a table, everyone who attended, and especially, Carol KB3GMN and Richie N3SBF, without whom this would not have happened. Carol does not get enough credit for her hard work, and most people don't see what Richie handles in the background, quietly... but they make the event. Thank you all!

Timing, of course, is everything. Since this newsletter is coming out just 2 days after **WASHFest 2023**, a lot of things haven't come our way yet. VE Session results, more pictures, more comments... we ought to have them all next month. Standby!

On to a few other things...

It was very nice having a bunch **together for breakfast** at Eat N Park, the Saturday before the hamfest. We stopped that, for obvious reasons, when the pandemic restrictions were imposed. **Maybe it's time to resume**. What do you think... McMurray Eat N Park on Route 19, Saturday March 25th, 8 AM?

The SSB segment of the **2023 Breezeshooter Groundwave Contests** is coming up. Good luck to all!

We're told that there WILL be a **2023 Breezeshooter's Hamfest** this year, on the traditional weekend at the Big Butler Fairgrounds! More information soon to be on their website!

Who's planning on going to **Hamvention** this year? Ye Editor must admit that this year's Hamvention awards contained a big surprise, as he's know Jim WA3FET since he was a freshman in college and joined K3CR. Wonder if now is a good time to tell a few tales...

Well, that aside, there's no rest for the weary, and before you know it, **Field Day 2023** will be upon us! Plans are underway, as Bill and Larry are telling us. This looks to be a whole lot of fun this year... although Ye Editor is not looking fondly to seeing how bad his fist has gotten over the years. That aside, it should be great! See you there?



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

Minutes, February 2nd Meeting

Nathan Suehr KC3GMM, Vice President / Secretary, WASH

Call to Order: 19:05. Presiding Officer: Curtis KB3CMT

*** Presentation about the Rabid Raccoon race from Karl (WA3VXJ) courtesy of the Steel City Club. ***21 members, 3 guests present.

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

Roll Call. 21 Members, 3 Guests Present

Curtis (KB3CMT) and Mark (N3RDV) - Discussion about 501c3 status and state tax exemption.

Bill (W3WH) - Motion to authorize Mark to proceed with 501c3 application with second by Tony (KB3BYA).

Committee Reports:

Treasurer: Mark Stabryla, (N3RDV Financial report read. Motion to accept by Bill (W3WH) with second by Nathan (KC3GMM). Voted and carried.

Secretary: Nathan (KC3GMM) January minutes published in February newsletter with no corrections necessary. Motion to accept by Carol (KB3GMN) and second by Frank. Voted and carried.

Repeaters: (Frank N3FB) Repeating.

WASHNet: Nathan (KC3GMM): Going well. Jim (WB4GCS) - Last net that he hosted ran almost an hour.

Thursday Night Tech Net: Glen (KE7FD) We had a few attendees at last meeting. Last session hosted with Zoom. Next one on third Thursday of February. Still looking at topics. Need someone to host March session as he'll be unavailable.

Should the club have it's own Zoom account? Further discussion by the group about the pros and cons of getting a paid Zoom account ***

Public Service: Tony (KB3BYA): April 1st ARES SET.

Newsletter: Ron (W3WN): Published!

Volunteer Examiners: Info published to ARRL web site and has received several responses.

Ways & Means (including Member Contributions): Carol (KB3GMN): No 50/50 tickets this meeting.

Contests: Larry (K3VX): (no report).

WASHFest 2023: Carol (KB3GMN):

- ♦ 46 tables reserved out of 72.
- ♦ All prizes secure. All door prizes received.
- ♦ We have enough tickets for all prizes.
- ♦ Putting donation box at coffee and donuts.
- ♦ Have catalogs from HRO and DXE. Need Make/model/license plate for folks staying overnight Saturday into Sunday.
- ♦ 50 rental tables arriving Saturday morning.
- ♦ Should we rent a table for the Two Rivers Hamfest?
- ♦ Big demand for electric at tables at **WASHFest**.
- ♦ Need to reserve facility for next year.
- ♦ Have permission slip for overnight stay.
- ♦ Two Black Box prizes.
- ♦ Remember that we need to tear down the tables after the hamfest.

Glen (KE7FD) - Is testing on Saturday or Sunday? Grant (KC3MLC) - Sunday
Del (W3DTP) - Only four ads for program book. Returning money to folks who placed ads.

Tony (KB3BYA) Food: Italian sausage and ham bbq.

- + Drink prices have increased.
- + Need 15 dozen eggs. Sam's club offers eggs in this quantity.
- + Jimmy Dean has egg muffins and egg croissants with increased profit but cannot store all of them. 7.5 dozen eggs are \$33. 12 pack of breakfast sandwiches \$13.58.
- + 90 lunch items total. 90 rolls - 45 of each.
- + Coffee pots are covered.
- + Carol has napkins.

New Business: (none)

Old Business:

Frank (N3FB) - Antenna to be delivered this month.

Mark (N3RDV) - We have a new PO Box and need someone to take second key. He has primary key. Grant (KC3MLC) volunteered to take second key.

Continued on Page 18

WASH Spotlight: Winner!



Congratulations to Doug Jamison KC3RGV, winner of the **WASHFest 2023** First Prize! Shown here with his new rig as presented by to him by **WASH** President Curtis KB3CMT!

Photo courtesy of Carol Danko KB3GMN

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**

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

AA3MR
AC4KU
AE3DL
K3GW
K3HCR
K3VX
K3WPL
K6DWR
KA3VXM
KB3BYA
KB3CMT
KB3GMN
KB3GUZ
KB3IAC
KB3IVX
KB3JHR
KB3NIX
KB3YCX
KC3GMM
KC3OCT
KC3TEU

KC3UUK
KC4WTT
KE7FD
N3DFK
N3IDH
N3JSF
N3RDV
N3SBF
N3UE
NB3C
NL7XM
NY9H
W3DTP
W3LE
W3WH
W3WN
W8LEV
WA3PYU
WA3VSS
WB4GCS

Melissa
Greenwald
Charlotte
Peterson
Charmel
Spirk

WASH FL
KA3UPY/M
WASH NE
NØPEU
WASH OH
N8DPW
WASH OR
KB3NVL
KB3NVM
WASH SC
N8NEU

WASH TN
K3OL
KE3XB
N3YPB
WASH TX
NB3C
K3LGM
KB3IJX
Jane Wagner
WASH VI
NP2JF

Silent Keys

AB3KA
AB3ED
AC4KU
AD3Q
K3EED
K3LIE
KA3NMG
KB3ENX
KB3FNM
KB3FOT
KB3JHQ
N3BPB
N3CZZ
N3FZ
N3HKQ
N3KEH
N3OBD
N3RNX
N3SKR
N3SRC
N3ZEL
N3XFE
W3ZLK
W4ZE
WA3JPP

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

Through February 28th, 2023

List compiled by

Mark Stabryla N3RDV, Vice President/Treasurer

2023 WASH Upcoming Events Calendar

Club Meetings & Other Significant Events — Subject to Change

| | | |
|---|--|---|
| March 2 nd | WASH Meeting | Panera Bread / Galleria Mall, 1500 Washington Road, Mt. Lebanon PA |
| March 4 th | Breezeshooter's Groundwave SSB | http://breezeshooters.org/ns/groundwave-contest/ |
| March 4 th - 5 th | ARRL DX Contest SSB | https://www.arrl.org |
| March 11 th | Breezeshooter's Groundwave Digital | http://breezeshooters.org/ns/groundwave-contest/ |
| March 25 th - 26 th | CQ WW WPX Contest SSB | https://www.cqwp.com |
| April 6 th | WASH Meeting | Panera Bread / Galleria Mall, 1500 Washington Road, Mt. Lebanon PA |
| April 16 th | Two Rivers ARC Hamfest 2023 | Elizabeth Borough VFD Bingo Hall, 101 South 1 st Avenue, Elizabeth PA 15037 |
| April 23 rd | PARS Tri-State Radio Fest | 1495 Old Brodhead Road, Monaca, PA 15061 |
| May 4 th | WASH Meeting | Panera Bread / Galleria Mall, 1500 Washington Road, Mt. Lebanon PA |
| May 19 th - 21 st | Dayton ARA Hamvention 2023 | Hamvention.org |
| May 27 th - 28 th | CQ WW WPX Contest CW | https://www.cqwp.com |
| June 1 st | WASH Meeting | TBD |
| June 3 rd - 4 th | Breezeshooter's Hamfest | Big Butler Fairgrounds, 1127 New Castle Road, Prospect PA 16052 |
| June 10 th - 12 th | ARRL VHF Contest | https://www.arrl.org |
| June 24 th - 25 th | ARRL Field Day | https://www.arrl.org |
| July 6 th | WASH Meeting | TBD |
| August 3 rd | WASH Meeting | TBD |
| August 12 th | Uniontown ARC 73 rd Gabfest | W3PIE Clubhouse, 433 Old Pittsburgh Road, Uniontown PA 15041 |
| September 7 th | WASH Meeting | TBD |

"Seen" at the February Meeting

Photos courtesy of and © Copyright
2023 Ron Notarius W3WN





WASH Field Day 2023

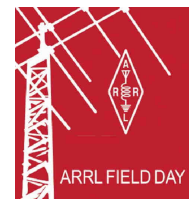
Bill Hill W3WH

Canonsburg, PA, February 9th, 2023 – You might say it can't be. We just had **WASHFEST**. Well that's true but our other big event, Field /day, will be upon us before we know it. The FD Committee will be meeting soon via zoom to iron out and finalize plans for this year's effort.

In the meantime, Larry and I are pleased to announce that Frank Bobro N3FB, has stepped up to the plate to replace Conductor Chuck KC3ELA as the eventual 'field Day Chairman for the future. This is really excellent news for the Club since Frank has so many talents to offer and we can look forward to top notch events both this year and certainly in the future.

Some things have already been agreed to for 2023:

- We'll operate as a 3A entry using the call sign N3T.
- We'll have a GOTA station capable of both SSB and Digital modes signing N3K.
- It looks like we'll have Icom 7300's at all operating positions.
- We'll be back at Sunset Hills in South Park.
- This year we'll have our new tri-band beam for 20-10 meter operations. So far this year all three of these bands have been very active and this should hold true for FD as well.



For the next meeting I would appreciate it if everyone would ponder this question:

Should we try to schedule operators for the SSB and possibly the Digital stations??? We have unsuccessfully tried this in the past but it may be time to do it again. For example, if 12 members would agree to invest two hours OPERATING we could theoretically cover the entire 24 hour operating period on SSB. That would still leave everyone with plenty of time to socialize and eat etc. Let us know what you think and if you won't be at the next meeting please drop Larry or me an email with your thoughts.

NASA: Help Wanted Amateur Radio Operators Please Apply!

Al Williams

Hackaday.com

<https://hackaday.com/2023/02/23/nasa-help-wanted-ham-radio-operators-please-apply/>

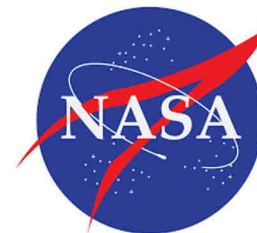
Pasadena, CA, February 23rd, 2023 – NASA's been recruiting citizen scientists lately, and their latest call is looking for help from ham radio operators. They want you to make and report radio contacts during the 2023 and 2024 North American eclipses.

From their website:

"Communication is possible due to interactions between our Sun and the ionosphere, the ionized region of the Earth's atmosphere located roughly 80 to 1000 km overhead. The upcoming eclipses (October 14th, 2023, and April 8th, 2024) provide unique opportunities to study these interactions. As you and other HamSCI members transmit, receive, and record signals across the radio spectrum during the eclipse, you will create valuable data to test computer models of the ionosphere."

The upcoming eclipses are in October of this year and in April 2024, so you have some time to get your station in order. According to NASA, "It will be a fun, friendly event with a competitive element." So if you like science, space, or contesting, it sounds like you'll be interested. Right now, the big event is the Solar Eclipse QSO Party. There will also be a signal spotting challenge and some measurements of WWV, CHU, AM broadcast stations, and measurements of the ionosphere height. There will also be some sort of very low-frequency event. Details on many of these events are still pending.

Hams, of course, have a long history of experimenting with space. They routinely bounce signals off the moon. They also let radio signals bounce off the trails of ionized gas behind meteors using special computer programs.



Amateur Radio on the International Space Station Seeking Proposals

American
Radio Relay
League

Newington, CT, February 23rd, 2023 — The Amateur Radio on the International Space Station (ARISS) program is seeking formal and informal educational institutions and organizations, either individually or working together, to host an amateur radio contact with a crew member on board the International Space Station (ISS).

ARISS anticipates the contact will be held between January 1st, 2024, and June 30th, 2024. Crew scheduling and ISS orbits will determine the exact contact dates. To maximize these radio contact opportunities, ARISS is looking for organizations that will draw large numbers of participants and integrate the radio contact into a well-developed education plan.

The deadline to submit a proposal is March 31st, 2023. Proposal information and more details, such as expectations, proposal guidelines, and the proposal form, can be found at <https://www.ariss.org/apply-to-host-an-ariss-contact.html>.

An ARISS introductory webinar will be held March 1st, 2023, at 8:00 PM EST. The Eventbrite link to sign up for the free webinar is <https://www.eventbrite.com/e/ariss-proposal-webinar-for-spring-2023-proposal-window-registration-515706320487>.

ARISS is a cooperative venture of international amateur radio societies and the space agencies that support the ISS. The United States sponsors are ARRL, the Radio Amateur Satellite Corporation (AMSAT), Amateur Radio Digital Communications (ARDC), NASA's Space Communications and Navigation program (SCaN), and the ISS National Lab Space Station Explorers (SSE).



Sherlock Solves a 30 Year Old Transmitter Hunt

Sherlock courtesy of eHam.net <https://www.eham.net/article/46406>

Undisclosed Location, US, January 10th, 2023 – This transmitter hunt began in 1987 on a VHF simplex frequency in the United States. The hidden transmitter was always mobile and always playing music. Violation of US FCC regulations 47 CFR Part 97.113 (d) and (e).

His transmissions were diligently recorded by several 'Hunters' over the years. The hunt seemed hopeless because even the direct surveillance techniques and "Transmitter Finger Printing" were unsuccessful. The first Finger Print of him was made in Sept. 1986 using the technique described in the May 2017, CQ Magazine Article, p. 32.

"There is nothing more stimulating than a case where everything goes against you". [From 'Hound of the Baskervilles':]

He was known as the "Music Man" because he played unwelcomed music from his car FM radio onto the Ham Band. His operations began to be more frequent in 2015 and new hunters were added to the group.

Once he had an interruption in his travel and some expletive came from a man's voice. We got his voice on tape.

"Never trust to general impressions, my boy, but concentrate yourself upon details." Watson, "There are no insignificant details". [From 'A Case of Identity':]

Facts:

- He transmitted from the northern part of the city but only in motion at high speeds (Fast flutter indicating speeds above 40 mph), that meant he was on the freeway. Direction finding bearings always showed his path to be from the north to the center of the city and frequently back again.
- His daytime operating times were random so he did not have a rigid 8 to 5 job. His operating days and times were plotted on a calendar to develop a pattern.
- He never transmitted from a stationary position, not even stop signs. Once his flutter was slow but constant and we saw (on the traffic cams) that the north bound freeway had heavy traffic. By that we knew he was north bound (going home). The traffic counter showed 2000 cars per hour.
- His signals were heard by others 50 miles away so he had at least a 30 Watt radio with an outside antenna. Several secret observation sites were used to scan the traffic on the freeway during his past routine. His car was seen once even though he was not transmitting at that time! Since we knew his travel pattern we were transmitter hunting for him even when he was not transmitting. His transmissions times were about 10 to 20 minutes in length but sometimes occurring only once every 6 weeks.

Several suspect cars were identified because of external whips. These days only about 1% of the modern cars have any whip antenna at all so a VHF whip is easy to spot. Photos were also taken for later review. A list of other hams who were on the air at the same time as the music man was collected so we knew who he wasn't. These hams were available as 'approved "T Hunters"'. A few times his signal went north and then just faded out, sometimes same to the west which indicated that he left the city.

The Final Day: His signals were tracked down south on the freeway, like many times before, but this time they kept going south for half an hour and got very weak. There are very few roads to the south - southwest from the city. Then the music stopped. (There only a few remote cabins in that canyon and this is where there is an access road to a locked secure private location begins). 1 hour later a ham started operating from that southern location on a different frequency.

(We were scanning all other frequencies for such transmissions because he apparently never used the frequency he was jamming). He gave his call sign during his operation and about 1 hour after that activity stopped, The Music Man started up again from the same very weak southern location. The music continued to get stronger and went through the center of the city and north on the freeway as it usually had on other days. Then it stopped.

QRZ.com allowed us to have a call sign by address/ZIP code directory so we knew where all the hams lived. The QRZ locator for the call sign we heard (Extra Class) showed his home as being in the northeast part of the city. Googling 'Street View' brought up the picture of his house and his car was in the drive way. That Car was The One Spotted on one of the Freeway 'Stakeouts' with the VHF whip on the rear of the roof!

The Next Step: Sharing this information with the authorities in hopes that the Music Man will soon disappear from the band.

"I am not the law, but I represent justice so far as my feeble powers go". [From the Adventures of the Three Gables.]

This article is from the notes of Sherlock but some of the direction finding details (AN/PRD-12) and physical interdiction methods of this investigation had to be censored to prevent future 'music men' from avoiding detection.

("I should prefer that you do not mention my name at all in connection with this case, as I choose to be only associated with those crimes which present some difficulty in their solution", [From the Adventure of The Cardboard Box]).

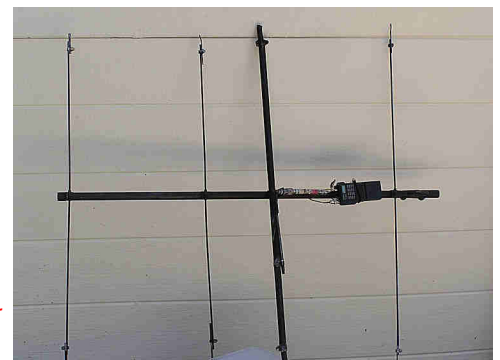
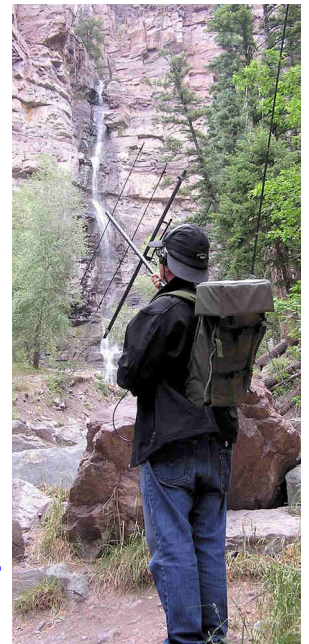
The identity of the City and of Sherlock in this case must remain hidden. This is a real event and some music men are armed.

Epilogue: Later investigation revealed that the Music Man was transmitting his location all the time on APRS. The APRS Track is

stored in the APRS Data Base for 2 years.

Sherlock is monitoring, just waiting for another case.

The Game is Afoot.



N3UE Woodworking

Ed Wolf N3UE has recently taken up a new endeavor... laser engraving. (See sample)

He's currently available for plaques and signs of varying shapes and designs.



Prices vary, but are very reasonable!

Interested? Contact Ed directly at n3ue11@gmail.com

Photos courtesy of and © Copyright 2023 Sherlock, who has requested that his name, call, and location not be included in this article for obvious reasons

WASHFest 2023

Photos courtesy of and (c)
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W3WN



Photos courtesy of and (c)
Copyright 2023 Ron Notarius
W3WN



WASHFest 2023

Photos courtesy of and (c)
Copyright 2023 Ron Notarius
W3WN



Results: WASH 2023 2 Meter Simplex Contest

Chuck Bihin III KC3ELA, Contest Chair

| CALL | LAST NAME | FIRST NAME | STATION | SCORE |
|--------|-------------|-------------|---------|-------|
| KB3IAC | BELL | RICK | M | 6,150 |
| KB3ORR | COX | BRIAN F. | F | 5,184 |
| K3VX | COMDEN | LARRY | M | 4,212 |
| WU3U | McCORMICK | CURT | M | 4,104 |
| W3WH | HILL | WILLIAM | M | 2,805 |
| AB1A | CHRISTESON | MIKE | M | 1,980 |
| K3HCR | ROSENBERGER | HAROLD | F | 1,680 |
| KC3STZ | DONOGHUE | JOSEPH MARK | F | 1,080 |
| KA3KSP | GRAZULIS | JIM | F | 840 |
| N3FB | BOBRO | FRANK | F | 760 |
| WB4GCS | SANFORD | JAMES | F | 736 |
| N3JSF | FORTIER | JEFF | F | 561 |
| KC3GMM | SUEHR | NATHAN E. | F | 378 |
| N3WS | WRIGHT | TOM | F | 324 |
| K3WPL | DURAND | GABE | M | 240 |
| W3OIE | GEARY | MITCHELL | F | 162 |
| WA3FXN | PENDRACKY | KATHLEEN | F | 132 |
| KC3TJW | BAKER | JOHN | F | 64 |
| KB3GMU | BOBRO | LORI | F | 56 |
| WO3X | GRAZULIS | JOHN | F | 48 |
| KC3MMC | JENNINGS | JOHN S. | F | 48 |
| KB3YCX | ROBBINS | GARY | F | 42 |
| N3RDV | STABRYLA | MARK | F | 12 |
| K3GW | WESLAGER | GARY | F | 6 |
| KC3UBW | ZEIGLER | TED | F | 3 |
| W3EMM | McMULLEN | ED | F | 1 |
| KC3VHR | HOSLER | JOHN | F | 0 |

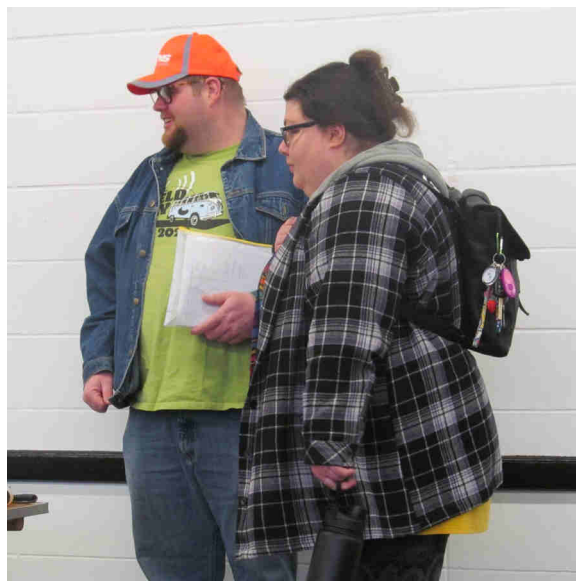
West Mifflin, PA, February 20th, 2023 —

Salutations, and thank you all for your participation in this year's event!

After last year's mild drought, it has been a real pleasure to see the logs come rolling in.

As I was unable to participate due to a recent career change (on-call railroaders know no plans or schedules!), I really enjoyed hearing and reading stories of radio heroism, intrepidity, and optimism in the face of lackluster scores!

Once again, I appreciate all of your participation, and I hope I can make it to see all of your bright and shining faces at **WASHFest 2023!!!**

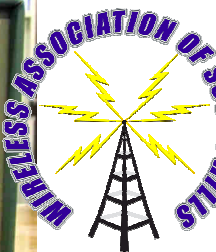


WASHFest 2023 Main Prize Winners!



First Prize: Doug Jamison KC3RVG
 Second Prize: Grant Olson KC3MLC
 Third Prize: John Baker KC3TJW
 Black Box 1: Ron Telek W3LE
 Black Box 2: Tony Romano KB3BYA
 50/50: Eric Urden K3SGT

Courtesy of Carol Danko KB3GMN



Two Rivers ARC 51st Annual Hamfest

Sunday, April 16th, 2023, 8:00 AM—2:00 PM

Elizabeth Borough VFD Bingo Hall

101 South First Avenue, Elizabeth, PA 15037

Talk-in on 146.730 — Mobile Check In 146.52

Admission \$5

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



17th Annual Tri-State Radio Fest

Sunday, April 23rd, 2023, 8:30 AM— 4:00 PM

Sponsored by the Pittsburgh Antique Radio Society

Center Stage Banquet Hall

1495 Old Brodhead Road, Monaca, PA 15061

Talk-in on 146.64 PL 131.8 General Admission \$5

More Information at <https://pittsburghantiqueradiosociety.org/>



Breezeshooter's Hamfest

Saturday, June 3rd, 2023

Sunday, June 4th, 2023

Big Butler Fairgrounds

1127 New Castle Road, Prospect, PA 16052

(Between I-79 and Butler PA)

More Information TBA

More Information at <http://breezeshooters.com>



Uniontown ARC 73rd Annual Gabfest

Saturday, August 12th, 2023, 8:00 AM—???

Vendor Setup prior to 8:00 AM

W3PIE Clubhouse

433 Old Pittsburgh Road, Uniontown, PA 15401

Talk-in on 147.045 PL 131.8

More Information at <http://www.w3pie.org>



2023 Hamvention Awards

Michael Kalter W8CI, Hamvention Awards Chair

Dayton, OH, February 28th, 2023 – The Hamvention Awards committee is delighted to announce the 2023 Hamvention award winners. Please join us in congratulating these outstanding Amateurs.

Special Achievement Award: Jason McDonald MD N2TPA is an active, well known Amateur Extra Class operator who earned his license in 2003. Dr. McDonald began as an RF engineer before changing careers to become a trauma surgeon. Dr. McDonald's amateur radio interests range from operating to international disaster response, with his true passion working with youth to promote amateur radio.

Dr. McDonald brings amateur radio to the world through youth projects and Scouting, particularly through Radio Scouting. Empowering youth through education is the goal of clubs he has helped to form. W1PTG is a testing group that Dr. McDonald helped create to offer exams in under-served areas and to get more people into the hobby. This team of VEs graciously donate their time and money to ensure each licensee in the program receives mentor support and a radio.

Dr. McDonald has been instrumental in promoting international friendship and community through Amateur Radio by forming scouting clubs in Canada (VA7RSI), the Philippines (W1PTG and DX1MC), and Florida (KQ4GCK). To date, more than five hundred youth in these clubs have been licensed and are on the air.

Amateur Radio Club of the Year: The Delaware Valley Radio Association (DVRA), an ARRL affiliated club formed in 1930, serves the Trenton, New Jersey metropolitan area. The club has tripled in size over the last six years due to the wide range of amateur radio activities and events they offer. An all-purpose club, the DVRA's activities include public service events, operator training/mentoring, Scouting events, informational monthly meetings, POTA events, and the operation of a world class club station.

The DVRA center of activity is club station W2ZQ, which operates a regular schedule. The station was renovated six years ago and currently houses two complete HF stations, a VHF repeater, an APRS digipeater and a WinLink VHF-RMS node. The recent addition of 1296 MHz EME capability has been optimized with the assistance of member Joe Taylor (K1JT). Station activities include an open house, hands-on seminars, contesting, and special event activations. Most importantly, the exchange of ideas that occurs within the walls of the building is priceless.

The DVRA's focus on training and its diversification of projects attract new and prospective hams and engage radio amateurs at all levels and with widely varying interests.

Technical Achievement Award: Dr. James Breakall's work has been instrumental in amateur radio antenna technology development for decades. He has teamed with many experts in the field to develop state of the art advancements with a wide range of applications, including the Numerical Electromagnetic Code (NEC). As a professor of electrical engineering at Penn State University from 1989 to 2022, Dr. Breakall WA3FET developed cutting edge antenna technology and mentored his students in amateur radio, resulting in 700 new licensees. Now a retired Professor Emeritus, he serves as a consultant to the Army, Air Force and Navy on many antennas related projects.

Nittany Scientific, a company initiated with his students, developed some of the first optimization methods applied to NEC in a package called NECOPT, a design he called Optimized Wideband Antenna (OWA) Yagi. The optimization had the goals of minimum peak SWR in a band, maximizing the lowest gain in a band, and maximizing the minimum front-to-back ratio in the band. These OWA Yagi designs have been used in numerous contest and DX stations around the world. Because he wanted this technology to be readily available worldwide, he has never pursued patent licensing. He also was the first to use helicopter measurements and Geometrical Theory of Diffraction (GTD) techniques for antennas in terrain at HF that led to software such as TA and HFTA.

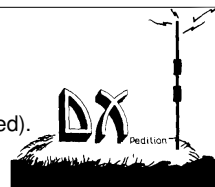
In 2010, Dr. Breakall in conjunction with Joe Taylor K1JT, Angel Vazquez WP3R and Pedro Piza, Jr. NP4A collaborated to use the Arecibo 1000 ft. dish to do moonbounce (EME). He worked on many antenna designs at Arecibo Observatory in Puerto Rico and at the HAARP facility in Alaska. Dr. Breakall has been a frequent forum presenter at Hamvention sharing his expertise on antenna design and enthusiasm for amateur radio.

As an avid amateur radio contest, Dr. Breakall has built contest stations in Pennsylvania and Puerto Rico and participated in over 100 contests, winning a fair amount of them. Dr. Breakall has authored numerous peer-reviewed scientific articles and books.

Amateur of the Year 2023: Carsten Dauer DM9EE has been active in European amateur radio through WRTC and YOTA for 30 years. Recently, he has spearheaded DM9EE-Helping Hands, a movement to provide amateur radio equipment to war torn Ukraine by collecting donations and delivering them personally to communities in Ukraine. Approximately 5000 kg of radios, power banks, solar packs, and

Continued on Page 15

DX News Briefs



CY0S will be QRV 20 – 30 March from Sable Island (they're scheduled time on the island has been extended). They have received permission from Parks Canada for 2 Meters, including EME operation, and are otherwise planning on stations from 160 – 2 meters. More information at <https://t-rexsoftware.com/cy0s/>. QSL via WA4DAN or OQRS.

HD8M will be QRV 1 – 10 March including the ARRL DX Contest. QSL via OQRS or LotW

5H100TC will be QRV 4 – 5 March for the ARRL DX Contest. Call is in honor of the 100th Anniversary of Turkey. QSL via M0OXO

8P5A will be QRV 4 – 5 March for the ARRL DX Contest. QSL via W2SC

J68HZ will be QRV 4 – 5 March for the ARRL DX Contest. QSL via K9HZ

P49Y will be QRV 4 – 5 March for the ARRL DX Contest. QSL via AE6Y.

TO5M will be QRV 4 – 5 March for the ARRL DX Contest. QSL via LotW.

JD1BOI and **JD1BON** will be QRV 9 – 24 March from Ogasawara Island (AS -031), 160 – 6, CW SSB RTTY FT8 FT4. QSL JD1BOI via J11LET, JD1BON via JA1UII

9G4X will be QRV 22 – 30 March, including the CQ WPX SSB Contest. More information on the 9G4X page on QRZ.COM. QSL via K4NHW

CQ3W will be QRV 25 – 26 March during the CQ WPX Contest. QSL via OQRS only. Outside of the contest, the operators will be QRV as **CT9/DD8ZX**, **CT9/DJ9KM**, and **CT9/DF7EEE** 22 – 28 March, .

TC3J will be QRV 25 – 26 March during the CQ WPX Contest. QSL via TA3J, LotW, or ClubLog

MM0UKI will set sail for Rockall Island (IOTA EU-198) on 26 May. They plan to be QRV for 10 days, 40 – 10, CW and SSB. QSL via M0OXO

PJ5/PE6Q and **PJ5/PA4O** will be QRV 6 – 18 July, 80 – 6 Meters, CW SSB & FT8. During the IARU Contest, they will be QRV as **PJ5C** for the ARRL DX Contest. QSL via ClubLog.

5Q5M will be QRV 29 – 30 July during the IOTA Contest. QSL via ON6QR

MD1U will be QRV 29 – 30 July during the IOTA Contest. QSL via M0OXO

MD7C will be QRV 29 – 30 July during the IOTA Contest. QSL via M0OXO

TG4/KT8X will be QRV 23 July – 4 August, Holiday Style, 40 – 6, CW and FT8; SSB may also be possible. Local noise will affect where and when he operates. QSL via LotW only.

PJ5/W5JON will be QRV 25 – 31 October, including the CQ WW SSB contest, 6 – 60 meters, SSB and FG8. QSL via w5JON or LotW.

Y11RZ advises all that he has been living in Turkey since 2013, and is currently inactive. Reports of activity from this station are of Slim and should be avoided.

QSL Routes

| | | |
|---------------------|--------------------|----------------------|
| 3X1A via F1TMY | II4STL via IQ4FE | OZ625E via OZ1ACB |
| 4U1NR via UA3DX | IO9J via IT9IMJ | PA44WFF/P via PA9CW |
| 4U13FEB via 9A2AA | IQ5VR via II5VV | PB23BP via PA3EFR |
| 5Z4PA via M0URX | IQ9AAH via IT9JAV | PF88ANT via PA0RDY |
| 5Z4VJ via M0URX | IQ9AAM via IT9HRL | PJ4G via K4BAI |
| 7T22ANT via IK2DUW | J52EC via IZ3BUR | R100AE via RQ7L |
| 8P5GL via EA7FTR | J8/AJ4YX via PA2LO | R100ME via RQ7L |
| 8Z3FD via HZ1SAR | KH6LC via WA6WPG | R150SM via R3AP |
| 9K5LX via ON7LX | KL7RA via N4GNR | SE4E via SM4DQE |
| 9U4WX via IZ8CCW | LZ142WMMU via | SM5A via SM5KNV |
| 9U5R via IK2DUW | LZ2VP | SO550MK via SP3PDO |
| A61FJ via LZ1YE | LZ145GO via LZ3GA | SP550MK via SP3PDO |
| CB12F via CE2RDL | LZ21MIG via LZ1ZF | SX68SF via SV1AHH |
| CB3CHILE via CE3ETR | M7T via G3YYD | TG9ANF via VE7BV |
| CR3W via DL5AXX | MD2C via MD0CCE | TM20AAW via F8DVD |
| CR6K via CT1ILT | NP2X via KU9C | TM5J via F6ITD |
| DK0FOC via DJ6SI | OH0Z via W0MM | TO4A via VE3DZ |
| DL0HAM via DM2FDO | OK7W via OK1CID | VL2A via VK2IM |
| DR100XRAY via DJ6SI | OQ4U via ON4AMX | XV9K via DJ6TF |
| EF1A via EA1X | OR6T via ON4AMX | XZ2B via JH3SIF |
| EF8BBM via OH0XX | OR7R via ON4LG | YL/4X6TT via N4GNR |
| EI0W via EI2JD | OT4A via ON4AEK | Z3151DELCEV via |
| II0LOVE via IQ0TE | OX5DM via OZ1ACB | Z37RSM |
| II2ANT via IK2QPO | OX7AKT via OZ1ACB | Z3151GOCE via Z37RSM |
| II2BGBS via IW2NNZ | OX7AM via OZ1ACB | Z66BCC via DL2JRM |

Thanks to DL1SBF, KB8NW, NG3K, the DX-QSL Reflector, 425 DX 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?

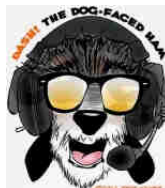
Contact: **Michael S. Lazaroff K3AIR, Esquire**

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 28th, 2023

| | |
|--------------|----------------|
| Novice | 7,244 |
| Technician | 430,096 |
| General | 199,049 |
| Advanced | 36,878 |
| Extra | 162,456 |
| Club | 12,426 |
| Total | 848,149 |

All-Time High 02/24/2023 848,150

| | | |
|---------------|--------------------|--------|
| Last 90 Days: | New Amateurs | 5,449 |
| | Callsign Changes | 1,645 |
| | Class Changes | 3,064 |
| | No Longer Licensed | 4,686 |
| | All Updates (*) | 24,760 |

(*) Includes renewals, address changes, etc.

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

Latest Region 3 Sequential Calls, Issued as of February 28th, 2023

| | |
|---------|-------------------------------|
| Group A | AC3JR |
| Group B | KF3EU |
| Group C | (none available / all issued) |
| Group D | KC3VQB |

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!

Has Roadway found the tower yet?



IARU News

American Radio Relay League

Newington, CT, February 16th, 2023 -- The 56th meeting of the Administrative Council of the International Amateur Radio Union (IARU) was held via Zoom on January 16th, with President Tim Ellam VE6SH, presiding.

The council received reports from the officers of each of the three regions. The meeting's focus was on the International Telecommunication Union's (ITU) upcoming World Radiocommunication Conference (WRC-23) later this year in Dubai, United Arab Emirates. The IARU effort for WRC-23 is being led by IARU Vice President Ole Garpestad LA2RR.

Here is a summary of the meeting submitted by IARU Secretary Joel Harrison, W5ZN:

"Of particular interest to the amateur radio and amateur satellite services for WRC-23 is agenda item 9.1b concerning the amateur allocation in the 23 - centimeter band at 1240-1300 MHz. The Radio Navigation Satellite Service (RNSS) is seeking protection from secondary users in addition to an expanded allocation. Preparatory work for this item is being conducted within the ITU's Working Party 5A. IARU's global WRC-23 9.1b team, led by Barry Lewis G4SJH, has been consulting with the amateur community, resulting in a contribution to the draft guidance recommendation in support of coexistence with RNSS. Details on this work can be found at www.iaru.org.

The council reviewed a comprehensive written report from IARU [Electromagnetic Compatibility] Coordinator Dr. Martin Sach G8KDF, on his work with the International Special Committee on Radio Interference (CISPR). CISPR was formed in 1934 to set standards for controlling electromagnetic interference in electrical and electronic devices. CISPR's specific areas include radio interference measurements and static methods, and limits for the protection of radio frequencies.

An ongoing strategic planning review of the current IARU structure is being conducted within several Working Groups (WGs). The Administrative Council received reports from the Futures WG Steering Committee, Relationship WG, Governance WG, and the Legal WG. This work is scheduled for completion no later than July to allow discussion at the Region 1 [General] Conference in Serbia in October, with additional opportunities provided to the other two regions.

Region 1 has received several inquiries regarding the status of [John Devoldere's.] ON4UN, and [Mark Demeuleneere's.] ON4WW, book, Ethics and Operating Procedures for the Radio Amateur and is considering how this document [can] be updated.

The Summary Record from this meeting, in addition to previous meetings, is available at www.iaru.org/reference/ac-summary-records/.

The next virtual meeting of the Administrative Council is scheduled for March 20th, and an in-person meeting is scheduled for June 25th at the conclusion of Ham Radio in Friedrichshafen, Germany.

The members of the IARU Administrative Council are the President, Vice President, Secretary, and two members from each of the regional organizations. Members participating in this meeting were IARU President Tim Ellam VE6SH/ G4HUA; Vice President Ole Garpestad LA2RR; Secretary Joel Harrison W5ZN; IARU Region 1; George Gorsline VE3YV, President, and Rod Stafford W6ROD, Sylvain Azarian F4GKR, President, and Mats Espling SM6EAN, Secretary, IARU Region 2; George Gorsline VE3YV President, and Rod Stafford W6ROD, Secretary, and Region 3; Chairman Ken Yamamoto JA1CJP, and Director Yudi Hasbi YD1PRY. Assistant Secretary David Sumner K1ZZ, also participated.

Founded in 1925, IARU is the worldwide voice of radio amateurs who secure and safeguard the amateur radio spectrum. ARRL serves as the International Secretariat of IARU.

Hamvention continued from Page 14

first aid have been shipped to Ukraine along with the donation of countless hours of planning, packing, documentation, and accessing permits have gone into this endeavor. On the return trip from Ukraine Carsten transports war refugees to havens in Germany, including his own hotel.

Supporting amateur radio friends and inspiring youth involvement is Carsten's passion. On his website <http://dm9ee.de/dm9ee-ukraine-help/>, he states, "Ham radio gave me a lot and I try to give back to our great hobby. The world is very small when you have a radio license. You talk to the world, and eventually you also visit people in other countries... and you always learn more about culture, when you know people there. Ham radio is great to learn languages, even if it is only a few friendly phrases."



WASHfest 2024

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

Sunday, February 25th, 2023

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
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MAIN PRIZES

First Prize: To Be Determined

Second Prize: To Be Determined

Third Prize: To Be Determined

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, 2024.

Reservations received after February 1st, 2024 must include payment in full.

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

Hamfest Table Reservation Form—Please PRINT LEGIBLY ALL INFORMATION

Name: _____ Email: _____

Address: _____ Phone: () _____ - _____

City: _____ State: _____ Zip: _____

Call Sign: _____

Tables WITH Electricity: _____ X \$15.00 = _____

Tables WITHOUT Electricity: _____ X \$12.00 = _____

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

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



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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): _____

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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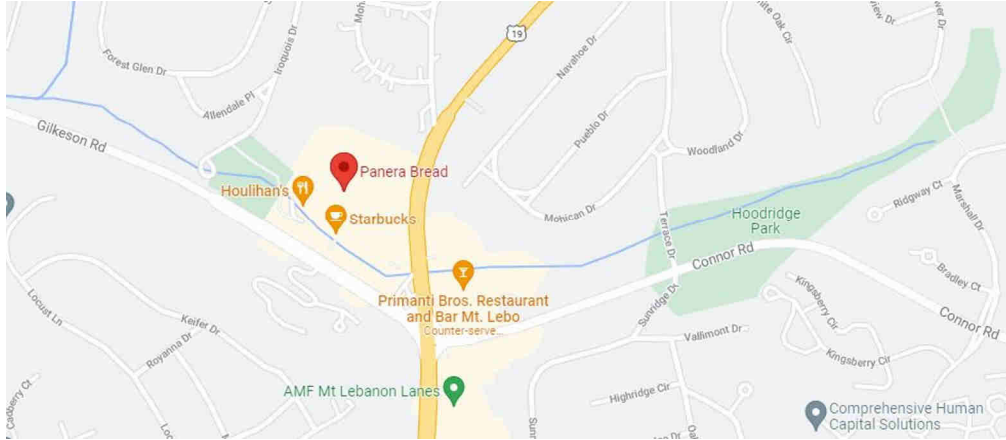


Arghh!
What Mightst We Draw For Ye, Matey?

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Directions to the March Meeting Site



The March meeting will be held at Panera Breads, Galleria Mall, 1500 Washington Road, Mt. Lebanon PA 15228, upper level, at the mall entrance to the upper parking lot.

The Galleria can be accessed from Washington Road south, or Gilkeson Road West.

Meeting starts at 7 PM. If you're grabbing a bite first, we have the room starting at 6:30 PM



Minutes continued from Page 4

Good of the order:

Jeff (N3JSF) - Brought tickets for home remodel show. Help yourself.

Ron (W3WN) - Saturday morning breakfast at 8AM

Curtis (KB3CMT) - March, April, May meetings at Panera Bread.

Motion to adjourn by Harold (K3HCR) with second by Ron (W3WN). Voted and carried.

Adjourned at 20:23 PM 02/02/2023



The WASHRag

Wireless Association of South Hills, Inc.

Ron Notarius W3WN, Editor

3395 Rosewood Drive

Castle Shannon, PA 15234-2546



N3SH / WA3SH
NP2SH/B

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www.washarc.org

