

VOLUME 23 Issue 06
JUNE 2021



Wireless Association of South Hills

WASHRAG

TM

FIELD DAY 2021!

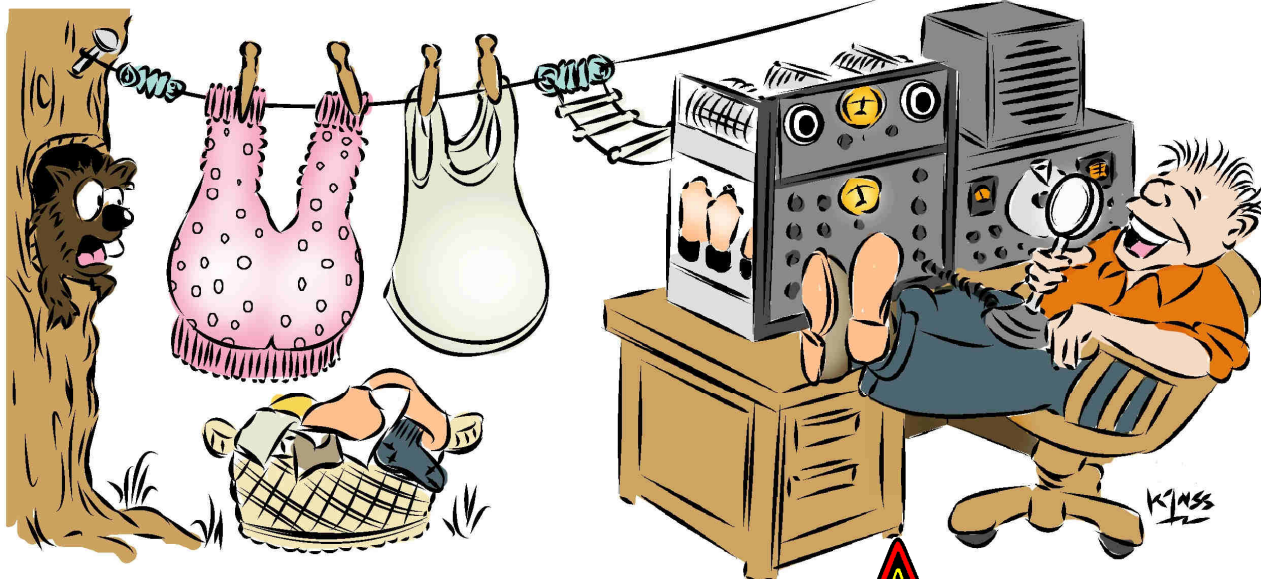


N3SH WA3SH NP2SH/B

www.n3sh.org



Wireless Association of South Hills



WASHRAG™



VOLUME 23 Issue 06

JUNE 2021

Next Monthly Meeting: Thursday, June 3rd, 2021

The next scheduled meeting of the **WIRELESS ASSOCIATION OF SOUTH HILLS, INC.** will be on **Thursday, June 3rd, 2021**, at Babcock Grove, South Park (the W3D Field Day site), starting at 7 PM. Directions and map are on the back page.

Primary topic will be Field Day 2021 preparations, along with just **FINALLY** getting a real in-person meeting for the first time in 15 months!

See you there!

Cover Photo: Field Day 2018, the Tower Trailer fully extended, with Babcock Grove in the background

Cover Photo courtesy of and © Copyright 2018, 2021 Harold Rosenberger K3HCR

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 2022 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 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.

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Editor & Publisher: Ron Notarius W3WN

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The **WIRELESS ASSOCIATION OF SOUTH HILLS, INC.** was founded on August 23rd, 1993, as the original **SOUTH HILLS AMATEUR RADIO CLUB**, and operated under that name through 1998. WASH was also known briefly in late 1998 as the **N3SH AMATEUR RADIO CLUB**. It is not in any way affiliated with the "South Hills Amateur Radio Club, Inc." and is not responsible for that group, it's members, or it's actions in any way, shape, or form.

As always, special thanks to the owners & operators of both the N3SH/R Repeaters and the N3FB/R Repeater System for permitting the **WIRELESS ASSOCIATION OF SOUTH HILLS, INC.** and it's members to use their repeaters for club purposes.

WASH Amateur Radio Club News Briefs

Next WASH VE Test TBA

The Next WASH VE exam session will be on Sunday, February 23rd. I've realized that I had the wrong date in my head for Field Day and will be unavailable. This makes it impossible for me to run a VE session on Field Day as I was hoping to do.

Instead I'd like to get something on the schedule for July 17th at 11 AM. The plan would be to rent out a picnic area at a local park at my own expense. I thought about doing something earlier but I know there's a bunch of testing and work leading up to Field Day and wanted people to have a chance to get through that and recover a little bit.

But first I wanted to reach out to the group to see if I can get some tentative confirmations that three or more VE's would be available. I also wanted to see if the main Mt Lebanon park by the high school and rec center is objectionable to anyone, or if South Park is highly preferred.

After this session I'm feeling like we'll be in good shape to resume indoor testing with a session in late September or early October.

-Grant Olson KC3MLC, WASH VE Liaison

Tony's Musings



I hope this Newsletter finds everyone in good health!

This Thursday June 3rd will be the first face to face club meeting in over a year held at South Park's Babcock Grove 7PM! Congratulations everyone for weathering the Pandemic and coming out the other side! As a Club **WASH** has shown incredible operating practices in such crazy circumstances! Job Well Done!

And Coming up at the end of the month is Field Day, I'd like to Thank The Field Day Committee, Glen KE7FD for his Great Leadership. and also Bill W3WH, Larry K3VX, & Harold K3HCR! And everyone else who will participate!

Congratulations to all the new Hams! It is so great to hear all of you on the repeater!

Thanks and everyone STAY SAFE and HEALTHY!!

— 73, Tony Romano KB3BYA
President, WIRELESS ASSOCIATION OF SOUTH HILLS, Inc.
N3SH / WA3SH / NP2SH

Reminder: Thanks to many COVID restrictions being lifted, the June WASH Meeting will be held in person on June 3rd, 7 PM, at the W3D Field Day Site, Babcock Grove, South Park. Please be prepared to observe any remaining social-distancing or related restrictions, for the safety of all.

It's been what, 14, 15 months? Well, we saw the beginning of the end at this time last month, and while we're not completely out of the proverbial woods... yet... our first in-person meeting in WAY too long is coming up THIS THURSDAY at the Field Day site.

Be forewarned: Ye Editor WILL have the camera with him!

Obviously, Field Day final preparations will be the (official) real topic of the evening. That said, you can expect an unofficial meeting of the **WASH Breakfast Gang**, finally, for the Saturday morning of Field Day at the Eat 'n' Park in South Park, starting as usual at about 8 AM, and continuing from there to Saturday morning FD setup. All should be welcome, since all restaurant capacity limits have been removed.

Either way, hope to see you there!

The light at the end of the tunnel... and it doesn't look like a train coming from the other direction...

VEC Testing will be getting back on track, soon, as well. If you've been waiting on things to sort themselves out before heading to an exam, fear not... it won't be much longer! We hope to have more details in next month's newsletter.

So, back to **Field Day 2021**. Glen has the details on how we're planning on setting things up over on Page 6, and as we get closer to the date, more details will be available on the club email reflector. As always, we'll need some help on Friday for site prep — you know, ropes in trees for antennas and things like that — on Saturday morning for antenna and equipment deployment, on Sunday early afternoon for taking everything down and putting it all away. A little help from everyone, and it all gets done smoothly. So please, let Glen know what your schedule and plans are like, so that a little effort from all gives us a all a lot of fun!

A lot of new calls on the repeaters. A lot of new calls on the roster, too. Welcome, all! Paul NØVLR has a few words to say on that as well, over on Page 8. Looking forward to seeing most or all of you at the June meeting or at Field Day!

Once Field Day is over with, **what next?** Well, we're also looking forward to area hamfests springing back up. Beyond that? Well, we shall see, won't we? (Any ideas?)



A plywood satellite?
Yup. The WISA Woodsat project, sponsored by plywood supplier WISA, plans to place a wooden-framed CubeSat into orbit by the end of the year.
Once in orbit, Woodsat will capture photos of itself... with a wooden selfie stick.
No, you can't make this stuff up.
[Yes, we checked the date of the press release... it wasn't April 1st.]

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

Minutes, May 6th Meeting

Dan Campbell K3CMU, Vice President/Secretary, **WASH**

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

Call to Order: 19:11. Presiding Officer: Tony Romano (KB3BYA)

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

Roll Call: Members Present: 20

Committee Reports:

Treasurer: Mark Stabryla, (N3RDV): Report read. Motion to accept by Bill (W3WH), second by Larry (K3VX) and carried unanimously.

Secretary: Dan Campbell (K3CMU): No corrections to the minutes. Motion to accept by Tony (KB3BYA), second by Carol (KB3GMN) and carried unanimously

Repeaters: Jim (WB4GCS): Full output on the repeaters.

WASHNet: Charles (Chuck) Bihun, III (K3CELA): Running well, new calls, reception is good.

Thursday Night Tech Net: Glen Roberts (KE7FD): Hosted 2nd and 4th Thursdays; the May 20th topic is POTA (Parks on the Air) at 8:00 PM

Contests: Field Day: Glen Roberts (KE7FD) –

- Babcock grove will be the principal location; Camden grove is too distant to manage effectively but do not cancel.
- Paul will bring tower trailer to Babcock on Friday evening, Harold will assist.
- Dan to solicit permission to have 1-3 members stay overnight on Friday evening;
- Dan and mark will get certificate of insurance to Allegheny County Parks Dept.; Curtis will have laptop
- Radio count:** Curtis – two 7300s, Jim – an SDR for CW, Larry – a 7300, a 7100 for backup and a Flex; maybe an 857.

Public Service: (no report)

Newsletter: Ron Notarius (W3WN): Published.

Volunteer Examiners: Grant Olsen (KC3MLC): planning for July examinations

Ways & Means (including Member Contributions): Carol Danko (KB3GMN): Contributions to support the club will be gladly accepted at Field Day.

President's Report - Tony Romano (KB3BYA): Moving to Latrobe, PA in the next few months; will not accept nomination as president for 2022; will continue his membership in the club.

Old Business: new ham-club software is installed to consolidate all club contact information, work will continue on web-site security, a meeting will be scheduled to discuss further. PayPal to be used to secure collection of dues A backup plan is in place to move antenna trailer on Field Day; Dan to request permission for overnight stay.

New Business: next month's meeting will be held at Babcock Grove; liability insurance is renewed

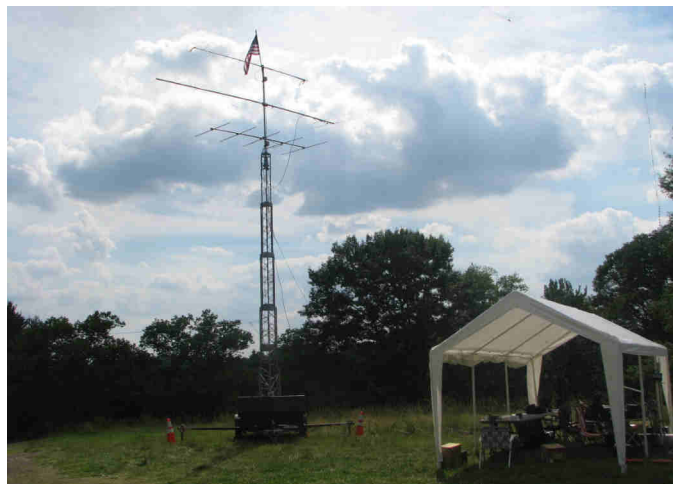
Good of the Order: Ron commented that the Wall Street Journal has a recent article about amateur radio (Bouvet DXpeditions)

Adjournment: Motion Bill (W3WH); seconded Carol (KB3GMN). Carried

Adjourned: 20:13 hours



WASH Spotlight: FD09



Remember this almost iconic view from N3SH Field Day 2009?

Photo courtesy of and ©Copyright 2009, 2021 Ron Telek W3LE

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

AA3XY	KC3GMM	N3KFD	WASH FL	WASH TN	Silent Keys
AE3DL	KC3MLC	N3RDG	KA3UPY/M	K3OL	
K3CMU	KC3NFV	N3RDV	W4ZE	KE3XB	AB3KA
K3GW	KC3NPJ	N3SBF	WASH NE	N3YBP	AB3ED
K3HCR	KC3OCT	N3ZK	N0PEU	WASH TX	K3EED
K3JDS	KC3QAH	N7TDX	WASH OH	NB3C	K3LIE
K3SGT	KC3RGV	N8NEU	N8DPW	K3LGM	KA3NMG
K3VX	KC3RTF	NL7XM	WASH OR	KB3IJX	KB3ENX
K6DWR	KC3RZL	W3LE	KB3NVL	Jane Wagner	KB3FNM
KA3VXM	KC4WTT	W3WH	KB3NVM	WASH VI	KB3FQT
KB3BYA	KE7FD	W3WN	NP2JF	N8NEU	KB3JHQ
KB3CMT	N0VLR	WA3PYU			N3BPD
KB3ERQ	N3DFK	WA3VSS			N3CZZ
KB3GMN	N3FB	WB3CAI			N3FZ
KB3GMU	N3IDH	WB4GCS			N3HKQ
KB3SQZ					N3KEH

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

Through May 31st, 2021
List compiled by
Mark Stabryla N3RDV, Vice President/Treasurer

WA3JPP

2021 WASH Upcoming Events Calendar

Club Meetings & Other Significant Events — Subject to Change

June 3 rd	WASH Meeting	Babcock Grove, South Park (W3D Field Day Site). See map on last page.
June 5th - 6th	Breezeshooter's Hamfest 2021	CANCELLED
June 12 th - 14 th	ARRL June VHF Contest	http://www.arrl.org
June 26 th - 27 th	ARRL Field Day	http://www.arrl.org
July 1 st	WASH Meeting	To Be Determined
July 24 th - 25 th	PVGP Schenley Park	http://www.pvgp.org
August 5 th	WASH Meeting	To Be Determined
August 7 th	Uniontown ARC W3PIE 2021 Gabfest	433 Pittsburgh Road, Uniontown PA 15401
August 7th	DX Engineering Hamfest	CANCELLED
August 29 th	Skyview Radio Society Swap 'n' Shop 2021	2335 Turkey Ridge Road, New Kensington, PA 15068
September 2 nd	WASH Meeting	To Be Determined
September 19 th	Butler County ARA Swapfest 2021	Unionville Fire Department, 102 Mahood Road, Butler PA 16001
September 26 th	City of Pittsburgh Great Race	Rungreatrace.com
October 2 nd - 3 rd	56 th California QSO Party	http://www.cqp.org
October 7 th	WASH Meeting	To Be Determined
October 9 th - 10 th	65 th Pennsylvania QSO Party	https://www.paqso.org
November 4 th	WASH Meeting	To Be Determined
November 7 th	WACOM Hamfest (tentative)	(pending official announcement)
December 2 nd	WASH Meeting	To Be Determined

Field Day Items

Glen Roberts KE7FD, WASH Field Day Whipping Post



Clairton, PA, May 26th, 2021 – As a reminder, Field Day this year is on June 26th and 27th.

In preparation for Field Day, members of the committee began efforts to make this a smooth event for everyone starting back in March. There are still some things that we need to get organized so that all might have an enjoyable time. We understand that there are sometimes conflicts that arise almost with everyone, yet we hope that those things that can be rescheduled for another time might receive due consideration.



Having said that, family comes first and at no time should anyone impose a hardship on a spouse, family member, or family events that have been planned; family doesn't take second place to Field Day. We hope that we will have as many participants as possible not only for setting up and tearing down but most especially for operating. We could certainly plan everything down to the tiniest detail, and that certainly would help in some aspects of having a successful event, but we want this to be a **fun** event. As always, we hope that you will invite non-hams to come and either observe or participate.

We will not have an official GOTA station this year, but we would certainly entertain using the WARC bands to get non-hams on the air in some capacity. Curtis will be posting a sign up page on the website soon so that we can each indicate our availability to participate in some capacity at Field Day.

We will have CW, voice, digital stations set up. We reserved two shelters for this event; still, progress with vaccinations has been sufficient that we will most likely just use Babcock for this year's event. Having said that, please be prepared to comply with social distancing and masks as required by county health officials. Covid-19 doesn't care about politics, constitutional rights, or personal viewpoints; the only thing we want everyone to go home with is having had a good experience. We would hope that those who have been vaccinated would feel free to associate as permitted under health regulations, and those who have not been vaccinated should wear masks. I suspect that most of us have already been vaccinated.

We expect to be running four stations this year. However, if you feel like you want to operate full-time or a considerable amount of time, with some consideration and arm twisting we might be able to bump the number up as long as we don't cause interference. Let's first try to fill up the operating schedule. I suspect that we will most likely be hard pressed to get every position filled.

Regarding food and meals, this year we will probably order out or we'll have arranged for catering so that we can be in compliance with County regulations. While I'm sure Carol will **want** to spend the entire event cooking and preparing meals while doling out potato salad, I for one politely ask that she just be allowed to operate a radio as much as she wants and when she isn't, to accord her plenty of downtime without having to worry about potato chips and hot dogs. ☺

I would like to thank Bill W3WH, Larry K3VX, & Harold K3HCR for their guidance in making sure that everything is being directed properly (or in other words, telling me what to do). Thank you also to all and anyone who has to date and will be providing direction and assistance for our field day this year. If we haven't already posted it, we will be W3D this year.

Don't forget about the June meeting at Babcock shelter on June 3rd, 7pm. We have the shelter all day so if you want to come early and operate your backpack station feel free to do so.

Also, Curtis pointed this out to me:

7.3.10. Educational activity bonus: One (1) 100-point bonus may be claimed if your Field Day operation includes a specific educational-related activity. The activity can be diverse and must be related to amateur radio. It must be some type of formal activity. It can be repeated during the Field Day period but only one bonus is earned. For more information consult the FAQ in the complete Field Day packet. Available to Classes A & F entries and available clubs or groups operating from a club station in class D and E with 3 or more participants.

I have a ton of wire which I acquired from a local ham recently. I also have a boat load of plastic antenna insulators.

So here's the suggestion: IF there is interest from at least three participants (licensed or not), I will bring the wire and the insulators so that they could make a dipole or an end fed antenna as the project. If you have an interest in doing this, please reply to this email so that I know who is interested and to make sure I bring all the correct materials. If you are looking to build a dipole, we should be okay with the materials on hand. For an end fed antenna, participants will have to purchase on their own a 9:1 unun, such as the inexpensive LDG for \$30.

PS, I'm open to suggestions that anyone has, so don't hesitate to fire an email off to me.



First Time Exam Applicants MUST Obtain FCC Registration Number Before Taking Exam

ARRL

Newington, CT, May 6th, 2021 – Beginning May 20th, 2021, all amateur examination applicants will be required to provide an FCC Registration Number (FRN) to the Volunteer Examiners (VEs) before taking an amateur exam. This is necessary due to changes the FCC has made to its licensing system.

Amateur candidates who already have an FCC license, whether for amateur radio or in another service, already have an FRN and can use the same number. All prospective new FCC licensees, however, will be required to obtain an FRN *before* the examination and provide that number to the volunteer examiners on the Form 605 license application. An FCC **instructional video** provides step-by-step instructions on how to obtain an FRN through the FCC's CoMmission REgistration System (CORES).

The FRN is required for all new applicants to take an amateur exam and is used afterward by the applicant to download the license document from the FCC Universal Licensing System (ULS), upgrade the license, apply for a vanity call sign, and to submit administrative updates (such as address and email changes) and renewal applications.

In addition, after June 29th, all applications will be required to contain an email address for FCC correspondence. Applicants will receive an email direct from the FCC with a link to the official electronic copy of their license whenever a license is issued or changed. ARRL VEC suggests that those without access to email to use the email address of a family member or friend. Licensees will be able to log in to the ULS using their FRN and password to download the latest version of their license at any time. The FCC no longer provides paper license documents.



Welcome, New Hams!

Paul Lusardi NØVLR

Imperial, PA, May 11th, 2021 – It has been encouraging to see and hear some new hams on the repeater systems and I have had the pleasure to offer some guidance where possible.

If you are relatively new to the hobby, this article is for you

You will most likely hear hams talk about when they were first licensed and in a few years from now, you may very well be saying the same thing to other new hams as well. Thinking of it as “paying it forward” to a future generation.

A little background and context here as amateur radio is considered both a hobby and a service.

As a Hobby:

You can experiment with putting together a radio station, build your own antenna, perhaps a digital mode interface, and explore seemingly endless sub-topics of radio such as satellite communications, digital mobile radio (DMR), radio contesting, and by connecting a computer to your radio, you expand your radio enjoyment possibilities.

As a Service:

There are radio nets to join, where we routinely practice our net control and roundtable check-ins. In fact, many repeaters around your area have weekly nets where you can from your radio at home station, or a portable handie-talkie (HT), or perhaps your car, you can check into these nets and listen to the current news from other hams sharing their experiences in radio and in life.

There are a few service-oriented groups in our hobby, one of them is the [western PA amateur radio emergency service](#) (ARES) and there are local nets and meetings to get some training and opportunities to provide communication services at events such as the Pittsburgh Marathon, the Pittsburgh Vintage Grand Prix, weather spotting through SKYWARN, smaller venues like 5-10K runs, and some parades too.

Publications & Events:

The Wireless Association of South Hills (WASH) is lucky to have a dedicated editor, Ron W3WN who puts out the best newsletter I've seen in the ham community. Check the [WASH website](#) for the current edition WASHRag and to sign up for email distribution. In addition to a newsletter, the WASH club hosts an email reflector on google groups which is a great place to ask questions to the club's members.

The club sponsors several events each year, in January, we run a 2M simplex contest where you can operate either from home, as a portable, or mobile station using 2M simplex – you will learn a lot about what you can do without a repeater by improving your antenna, height/location, and turning down the squelch.

Next up is our hamfest in February where you can expect a collection of vendors of both new and used radio related materials, see some faces you've only heard on the radio before, try your luck at raffle prize drawings, and perhaps attend a volunteer exam (VE) session and upgrade your license to the next level.

In June each year, the WASH club participates in [ARRL Field Day](#) where clubs and individuals are encouraged across north America to get out of the shack and setup somewhere public practicing our emergency communications by setting up stations, antennas, solving power source challenges, coordinating food and weather protection. The WASH club will be holding field day activities in South Park at Babcock Grove, always check the newsletter and listen in on weekly nets for updates.

Rounding off the year, in October, several groups of hams from the WASH club will operate on various HF bands for the [Pennsylvania QSO \(PAQSO\) party](#). Several groups will set aside this weekend and plan out a strategy for operating the contest to get a “clean sweep”, making contact with all 67 PA counties (it isn't as easy as you might think!)

Speaking of radio contesting, if you think morse code (CW) is dead because it is no longer required for testing, try tuning in on the lower part of any HF band, (especially on a weekend) and you will be surprised by the amount of activity!

Note: in order to keep this article to a reasonable size, I only covered information related to the WASH club activities but every club has events, or perhaps some specialty they like to focus on. The ARRL publishes [a list of sanctioned clubs](#) for you to choose from.

Summary:

Many hams who have been in the hobby as long as I have (25+ years now) will all agree that this article barely scratches the surface of what you can do, how to get involved, and enjoy this hobby.

Although not yet mentioned yet, joining the ARRL is encouraged as they are our voice to protect our frequencies, provide good reading material monthly, including something for new hams - a [publication called “ON the Air”](#), focusing on starting out and getting active in the hobby.

As you can see, the hobby welcomes you and there are countless opportunities for learning new aspects of the hobby and opportunities to meet new folks in the area as well. I encourage you to speak up, ask questions, join in on the weekly nets to get to know the names and callsigns, and look for opportunities to get involved.

Cheers and 73!



Old Timers & Newcomers

Stephen F. Nowak KE8YN <https://sfnowak.com/>

courtesy of QRZ.com

Chesapeake, VA, May 29th, 2021 – I've been licensed since 1983, back in the days when a Novice ticket had a (5 year) expiration and you had to either travel to the FCC office, or wait for their semi-annual test session. I was not in any Podunk village in the middle of the desert. I was in as suburb near Cleveland, Ohio.

I studied diligently, and moved through General, Advanced, and then Amateur Extra. During that same time period, I achieved one of my dreams and began working toward my private pilot license. My experience there taught me a great deal about advancing in amateur radio.

Ground school and flying were done concurrently and for a good reason. There's no way a student pilot will have any idea as to the difference between a slip and a skid during ground school. You cannot imagine a stall, much less a spin, based on a textbook. You have to combine theory and experience to truly learn.

The same is true about amateur radio. How many of us, after learning the theory found out that our careful calculations did NOT result in a perfectly tuned antenna? And that ground you first installed probably had a few problems as well. Admit it. My current station is on the second floor, and it took me half-a-dozen changes to my ground system to get it right.

I learned the most about Amateur Radio after I passed each license exam and got on the air. I found myself saying, "Wait, going from 100 watts to 200 watts is only 3 dB??" I learned a lot and I still go back to the reference materials, like the ARRL Handbook to fill in the blanks due to advancements or things I've forgotten.

Since I got licenses, I've helped in many (too many) disasters. I was a Navy and Marine Corps MARS member. I operated KC4USV at McMurdo Station, Antarctica and worked them from my home. I'm a Volunteer Examiner. Did I know everything when I took my license exams? Nope. Did I learn? Yep. Am I still learning? Yes, and there's a lot more to learn.

Just something to think about.

"Geomagnetic Storm Season" is Over

American Radio Relay League

Newington, CT, May 12th, 2021 – June and July bring frequent 6-meter DX openings via long-distance sporadic-E propagation and persistent quiet geomagnetic conditions. These 2 months are well known to North American 6-meter DXers as the most productive time of year for DX up to 8,700 miles.

"The quiet geomagnetic season during June and July typically has only about half as many geomagnetic storms compared to March and April," says contesteer and solar observer Frank Donovan W3LPL. The planetary Kp index is usually about two points lower than during March and April, and severe (Kp = 8 or 9) storms are very infrequent, but the quiet geomagnetic season doesn't mean the end of geomagnetic storms. Two of the most severe (Kp = 8+) geomagnetic storms during Solar Cycle 24 occurred on June 22nd and 23rd, 2015.

Storms during June and July are not as frequent, strong, or as long lasting as they are during the geomagnetic storm seasons of March/April and September/October, but even the most severe storms (Kp = 8 or 9) can occur at any time with little warning.

We've had two moderate (Kp = 6) storms so far in 2021, both during March. We also had eight minor (Kp = 5) storms: five in March and one each in January, February, and April.

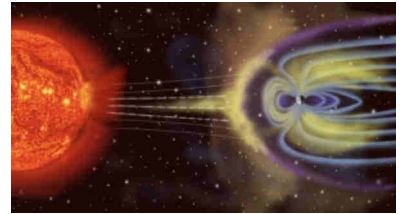
"June and July 2020 were exceptional for 6-meter DX via sporadic E, and these normally geomagnetically quiet months were exceptionally quiet — the quietest since 1996," Donovan said. "I made more than 500 European QSOs during June and July, more than 100 QSOs with stations in Japan (11,000 kilometers) during June, and one very unexpected QSO with UN3GX (10,500 kilometers) in mid-June."

Donovan noted that no geomagnetic storms occurred in June and July 2020; the last time this occurred was June and July 1996. Only four brief geomagnetically active (Kp = 4) periods occurred in 2020 (June 7th and July 14th, 24th, and 25th). The rest of 2020 was also exceptionally quiet with only one moderate storm in late September — and eight minor storms, he said. "June and July 2019 had two minor storms — on June 8 and July 9 and 10. There were only two moderate storms in 2019 — in May and August — and 15 minor storms."

June and July 2018 saw three minor storms — June 1st and 25th/26th and July 5th. Just two moderate storms happened in 2018 — in May and August — and 16 minor storms, Donovan said.

"Coronal mass ejections (CMEs) caused 2017 to be much more geomagnetically active. June and July 2017 had two moderate storms on July 16th and 17th and three minor storms on June 11th and 16th and July 9," Donovan said. "Three strong-to-severe (Kp = 7 to 8) storms occurred in September and May, with 12 moderate storms, and at least 33 minor storms occurred throughout the year."

Donovan observed that Earth-directed CMEs are just beginning to cause occasional geomagnetic storms now that Solar Cycle 25 is somewhat more active. "During the next few years, CMEs will become the dominant cause of moderate-to-severe geomagnetic storms," he said. "Geomagnetic storms caused by CMEs usually develop more quickly, are more long lasting, and are more severe than the typically brief, minor storms caused by coronal hole high-speed streams during the approximately 4 years near solar minimum."



Weekend Solar Flare Frenzy Could Spark Geomagnetic Storms

American Radio Relay League

"It ain't over till it's over"
Yogi Berra, 1973

Newington, CT, May 25th, 2021 – The Space Weather Prediction Center ([SWPC](#)) has issued a G1 (minor) geomagnetic storm watch for May 25th and 27th, and a G2 (moderate) geomagnetic storm watch for May 26th. These are the result of the combined effects of multiple coronal mass ejections associated with solar flares on May 22nd and 23rd.

According to [Spaceweather.com](#), NASA's Solar Dynamics Observatory recorded 10 C-class and two M-class flares. Subsequent analysis revealed multiple coronal mass ejections (CMEs) associated with the flares. According to NOAA models, CMEs will initially interact with Earth's magnetosphere late on May 25th with effects potentially continuing through early May 27th.

[Spaceweather.com](#) said, "Earth-orbiting satellites detected a dozen explosions in the magnetic canopy of sunspot AR2824. One of them emitted a radio burst so strong, it drowned out static from lightning storms on Earth and was recorded at midnight by listening stations in the Arctic."



June 2021 Eclipse Festival Seeks Ham Participants

American Radio Relay League

Newington, CT, May 25th, 2021 – [HamSCI](#) is looking for ham radio operators to make recordings of time-standard stations during the June 2021 annular solar eclipse across the Arctic Circle as part of a citizen science experiment. Researchers will use the crowd-sourced data to investigate the superimposed effects of auroral particle precipitation and the eclipse on HF Doppler shift.

Participants would collect data using an HF radio connected to a computer running open-source software. A precision frequency standard, such as a GPS-disciplined oscillator, is desired but not required to participate. Radio amateurs and shortwave listeners around the globe are invited to take part, even stations far from the path of totality.

Last year's eclipse festivals included more than 100 participants from 45 countries. The experiment will run June 7th – 12th. All participants will receive QSL certificates and updates as the data is processed. This is a pilot experiment for HamSCI's Personal Space Weather Station project, which seeks to develop a global network monitoring the geospace environment.

For more information and set-up instructions, visit the [June 2021 Arctic Eclipse Festival](#) page on the HamSCI website.



CQ Hall of Fame 2021 Inductees

CQ Magazine Newsroom

Hicksville, NY, May 25th, 2021 – CQ has announced six new members to its Amateur Radio Hall of Fame, and two new members each to the DX Hall of Fame and the Contest Hall of Fame. This year's inductions were conducted online due to event cancellations resulting from the COVID-19 pandemic.

The **CQ Amateur Radio Hall of Fame** honors individuals who have made significant contributions to amateur radio and radio amateurs who have made significant contributions either to amateur radio, to their professions, "or to some other aspect of life on our planet," CQ said. The addition of six new members brings the total number to 339 since the Amateur Radio Hall of Fame was established in 2001.

The 2021 inductees are:

- Archibald Doty W7ACD (SK), engineer, inventor, researcher into efficient radial systems for vertical antennas and pioneer of college radio; co-founded what is now WESU at Wesleyan University in Connecticut in 1939, the second-oldest college radio station in the US, and served as a pilot in the US Army Air Corps during World War II.
- Nathaniel Frissell W2NAF, founder of **HAMSci** (Ham Radio Science Citizen Investigation), a collaboration between radio amateurs and ionospheric scientists; organizer of the 2017 Solar Eclipse QSO Party, which also served as a research project on the effects of a total solar eclipse on HF propagation.
- Lorin Hollander WA1PGB, world-renowned classical concert pianist who has performed with virtually every major philharmonic orchestra in the US as well as with many overseas; heavily involved in music and arts education and in relationships between music and medicine.
- Christopher Imlay W3KD, ARRL Counsel and General Counsel (1982 – 2018); represented ARRL before the FCC on a wide variety of issues including PRB-1, now enshrined in FCC Section 97.15 (b), which requires state and local regulations to reasonably accommodate amateur radio antenna structures.
- Cathryn Mitchell MØIBG, Academic Director of the University of Bath Doctoral College (UK) and recipient of the 2019 Edward Appleton Medal "for pioneering research in tomography and data assimilation revealing a completely new perspective on Earth's ionosphere in response to extreme space weather."
- Admiral Charles "Chas" Richard W4HFZ, commander of USSTRATCOM, the United States Strategic Command, one of 11 unified commands of the Department of Defense; served previously as Commander of US submarine forces and Director of Undersea Warfare at the Pentagon.

CQ DX and Contest and Halls of Fame

The CQ DX and Contest Halls of Fame honor those radio amateurs who not only excel in personal performance in these major areas of amateur radio but who also give back to the hobby in outstanding ways.

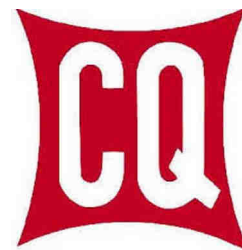
The **CQ DX Hall of Fame** was established in 1967 to recognize those amateurs who have made major contributions to DXing and DXpeditioning. Two new members were inducted this year.

- Jacky Calvo ZL3CW/F2CW, a veteran of the French Air Force and the International Committee of the Red Cross, with postings that took him (and his ham station) to a dozen countries around the world; a participant in more than two dozen DXpeditions and WRTC (World Radiosport Team Championship) competitions from 2010 to 2018 (and a team leader for 2023).
- Francesco Valsecchi IKØFVC/HVØA, who has regularly activated Vatican City for the past 30 years using HVØA and other call signs, as well the Sovereign Military Order of Malta (SMOM) as 1AØKM. Along with fellow operators, Francesco has logged more than 300,000 contacts from the two tiny entities, averaging roughly 10,000 contacts per year for hams around the world.

The **CQ Contest Hall of Fame** was established in 1986 to recognize those amateurs who have made major contributions to the art of radio contesting. These are the 2021 inductees.

- Robert Wolbert K6XX, a "renaissance man" of contesting, advancing the state of the art in designing amateur equipment at Elecraft, a participant in more than 1,100 contests over 35 years, and a winner of multiple competitive events. He is a nine-time recipient of the Jim Maxwell Memorial Trophy for the highest-scoring California single-operator unassisted station in the ARRL International DX CW Contest. He was also a member of the organizing committee for WRTC 1996 and a team leader in 2000 and 2014, has authored many articles for amateur contesting publications, presented at multiple conferences, and is a longtime member and leader of the Northern California Contest Club (NCCC).
- David A. Pruet K8CC (SK), author of the NA contest logging program as well as a log-checking program and host of many multi-multi operations from his Michigan contest station over 30 years; longtime chairman of the Michigan QSO Party; former editor of *National Contest Journal* (NCJ), and member and leader of the Mad River Contest Club.

CQ World Wide DX Contest Director John Dorr K1AR, led the Contest Hall of Fame induction at the conclusion of Contest University's (CTU) online seminar on May 20th.



April 2021 Volunteer Monitor Program Reports

Riley Hollingsworth K4ZDH, VM Program Administrator

Gettysburg, PA, May 13th, 2021 – The Volunteer Monitor (VM) Program is a joint initiative between ARRL and FCC to enhance compliance in the Amateur Radio Service.

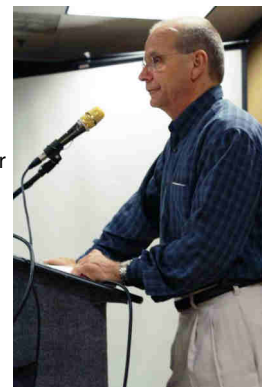
A General class renewal applicant withdrew his application after FCC notice that the renewal application would be held up pending review of Volunteer Monitor complaints. As a consequence, the Quakertown, Pennsylvania, applicant has no operating privileges.

Twenty-one operators in 14 states received *Advisories* because of their operation in the March CQ World Wide DX Contest. While making contacts with VC3T and VC2W, their LSB signals extended *below* 7.125 MHz, which is the lower limit of the 40-meter amateur phone band.

Volunteer Monitors participated in a nationwide training program on April 7 that was conducted by ARRL and the FCC.

The Volunteer Monitor Coordinator had two meetings in April with FCC Enforcement Bureau personnel.

The totals for VM monitoring in April were 1,394 hours on HF frequencies and 2,515 hours on VHF and above frequencies.



German Regulator Acts Against Solar Unit Causing RF Pollution

VERON courtesy of and translated by Southgate Amateur Radio News

Arnhem, The Netherlands, May 27th, 2021 — The German Federal Network Agency has taken action against a make of solar panel optimizer that has been causing radio interference. A translation of the VERON post reads:
The German Bundesnetzagentur (BNetzA) reports in its official publication Amtsblatt 9 that a device from SolarEdge does not comply with the EU Electromagnetic Compatibility (EMC) Directive. BNetzA indicates that the EU declaration of conformity is not in order and that the interference levels are too high. BNetzA therefore imposes a market-restricting measure on SolarEdge.



Optimizer

The device in question is a so-called optimizer (model P300, P370, P600, P600-M27) for solar panel installations. In accordance with Article 38 (4) of the EU Directive, BNetzA has imposed a market restrictive measure for the German market. German market participants have four weeks to communicate their position on this to BNetzA.

Article 38

Article 38, paragraph 4 of the EU Directive reads as follows:

If the relevant economic operator [SolarEdge's representative in Germany] fails to take effective corrective action within the time limit referred to in the second subparagraph of paragraph 1, the market surveillance authorities [Bundesnetzagentur] shall take all appropriate interim measures to prevent the making available on their national market [Germany] of the prohibit or restrict equipment, or withdraw it from the market or recall it in the Member State concerned.

Market surveillance authorities shall immediately inform the Commission and the other Member States of these measures.

Many more products are not adequate

Last week, we published two articles on the results of EU EMC studies on solar panel installations and LED lighting respectively. This shows, among other things, that 75% of the investigated PV systems (solar panel installations) and 25% of investigated LED lighting do not meet the emission requirements of the EU EMC directive. In addition to technical requirements, the EU EMC directive also prescribes administrative requirements, for example with regard to the mandatory CE marking and the EU declaration of conformity.

With its measure, the German Bundesnetzagentur shows what the consequences of non-conformity can be. Incidentally, the imposed measure only applies to Germany, despite the fact that the applied directive is a European one. Other EU member states therefore decide independently whether they want to take similar measures. As mentioned above, other Member States will be informed of the German measure.

More information:

- * The publication of the German Bundesnetzagentur: Amtsblatt 9; Bonn, 12 May 2021 <https://www.bnetza-amtsblatt.de/download/59>
- * The applicable EU directive: Directive 2014/30 / EU of the European Parliament and of the Council - February 26th, 2014 - on the approximation of the laws of the member states related to electromagnetic compatibility <https://eur-lex.europa.eu/legal-content/EN/TXT/PDF/?uri=CELEX:32014L0030&from=EN>
- * Our article of 17 May 2021: Solar panel installations: 92% does not comply with the EU EMC directive <https://www.veron.nl/nieuws/zonnepaneelinstallaties-92-voldoet-niet-aan-eu-emc-richtlijn/>
- * Our article from May 19, 2021: LED lighting: 60% does not comply with EU EMC directive: <https://www.veron.nl/nieuws/led-verlichting-40-voldoet-niet-aan-eu-emc-richtlijn/>
- * Source VERON <https://tinyurl.com/IARU-Netherlands>

DX News Briefs



There are multiple reports online that recent operations by **3Z2DX**, **3D2JK**, and **3D2DOM** have been are not valid for DXCC purposes. In addition, G7VJR (who created ClubLog) is reporting on Twitter (<https://twitter.com/g7vjr>) that "3D2ZK is now suspended from using the expedition mode and OQRS in ClubLog. And CQ DX Marathon Manager K9EL states that "any QSOs with 3D2ZK will not count for the 2021 DX Marathon." More details on why this is taking place can, allegedly, be found at <http://3z9dx-busted.com>; that website implies that there are irregularities in the 3Z9DX operation, and an allegation that the 3Z9JK license has been forged. Questions have also been raised about the **T19/3Z9DX** and **P5/3Z9DX** operations.

ND9M/VQ9JC is currently anchored in Saipan (Grid Square QK25), and plans to go ashore "soon" as **ND9M/KHØ** (so that the operations count for DXCC and other awards). He plans to operate satellite(s) "as it's been several years since anyone's been on satellite from the island." He should be QRV through mid-June. QSL as directed.

PA3CPG is currently QRV as Z21DX for an unknown period of time. QSL via PA3CPG or as instructed.

5UAIHM is QRV through 27 June. QSL via F4IHM.

K2LIO/FJ will be QRV through 5 August, 40 20 & 15 meters. QSL via K2LIO

4U29MAY is QRV from the **4U1GSC** Amateur Radio Club at the UN Global Service Center in Brindisi, Italy, through 30 June. This operation counts for Italy for DXCC purposes. QSL as directed.

8J2I is QRV through February 2022, 160-12, with most activity on FT8/FT4. All QSOs will be confirmed automatically via the Bureau.

VP2V/NC3Z will be QRV 3 – 14 June from Totrola, BVI (NA-023), 40 – 6 meters, SSB & FT8/FT4. QSL via Logbook of the world and ClubLog.

EH5SUB will be ARV from the Delfin S-61 Submarine during Museum Ships Weekend 2021, 5 – 6 June. QSL via EA5GVJ

HBØ/HB9HBY will be QRV from 20 June – 4 July, 160 – 10, CW SSB & FT4/FT8. More information at <https://facebook.com/hb9hby> or <https://twitter.com/hb9hby> QSL via EB7DX.

OE6ØANT will be QRV 1 July – 31 December to celebrate the 60th Anniversary of the Antarctic Treaty System. He has been issued special reference WAP-315. More information at <http://www.waponline.it>. QSL via OE3DMA

8Q7CQ is scheduled to be QRV 28 September – 13 October, from the Island of Innahura (AS-013), 80 – 10 on SSB and Digital modes. QSL via MØOXO or direct to GØVJG.

QSL Routes

418A via MØOXO	CP4BT via IK2DUW	OHØCO via SM6CCO
403A via VE3EXY	CP6CL via W3HNK	OT3ØCRD via ON4LBI
409KOM via EB7DX	CR65PQ via CT1EHX	PI75LDN via PI4LDN
456RSP via EA5GL	D44PM via IZ4DPV	PJ2CF via EA5GL
5R8AL via G3SWH	DL25GDXF via DL6DH	PJ2MAN via EC5AHA
5T2NH via EA7FTR	DP44WCA/P via DF6EX	PJ2SM via EC5AHA
5T5PA via PA5X	EF5U via EA5U	R116MS via RQ7L
5UAIHM via F4IHM	EG1XA via EA1RCI	R8ØØANL via RV1AQ
8NØLP via JARL	EP2HAM via MØOXO	RK75AK via UA2FAK
8P2K via KU9C	EY8MM via WØVTT	RO1ØRT via RA4R
9G5AR via N4GNN	FK8GU via EA5GL	RO36MS via RQ7L
A25SL via N4GNN	HC7AE/1 via EA5GL	RT36MS via RQ7L
A6ØWTIS/5 via A61BK	HF1921PS via SP9KJU	S79LA via 4Z5LA
A62A via EA7FTR	HF35BLP via SP7MUX	SD1A via SM1TDE
A91GCC via EC6DX	HG6N via HA6KNB	TC1919ATA via TA6P
AN5ITU via EB5R	HP3AK via W4JS	TM1ØØCLG via F8KGS
BX6ABV via EA5GL	IB8C via IZ8GNN	UE36MS via RQ7L
C37AC via EA3QS	JY5HX via E73Y	VP6MW via WØVTT
CE2SV via N7RO	KP2M via NZ4DX	YP9F via YO9FNP
CN65FAR via RW6HS	LG9L via LA9L	Z21DX via PA3CPI
CN8CZM via CN8ZG	LX9BSC via LX1RT	ZL7DX via MØOXO
CO7HH via RW6HS	LZ7ØHSC via LZ2JE	ZA/IK2RLM via IZ2LSP
CO7QC via IK2DUW	OE6ØVHSC via OE1TKW	

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

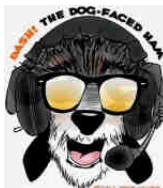
277 West Main Street, Saxonburg, PA 16056

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 May 31st, 2021:

Novice	8,065
Technician	427,107
General	193,173
Advanced	38,642
Extra	158,241
Club	12,512
Total	837,737

All-Time High 05/27/2021 837,832

Last 90 Days: New Amateurs 10,461

Callsign Changes 3,505

Class Changes 4,698

No Longer Licensed 7,184

All Updates (*) 36,103

(*) Includes renewals, address changes, etc.

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

Latest Region 3 Sequential Calls Issued as of May 31st, 2021:

Group A	AC3HQ
Group B	KF3EU
Group C	(none available / all issued)
Group D	KC3SFX

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, May 19th, 2021 – Starting on June 29th, all applications filed with the FCC must include an email address for FCC correspondence. After receipt of the initial announcement that all future applications would require an email address, ARRL was concerned for the privacy of its members and requested that amateurs' email addresses not be made public. This week, the FCC agreed, stating in an email to ARRL counsel that it will continue to "mask" amateurs' email addresses from public view in the Universal Licensing System (ULS). The FCC will use the email address supplied by amateurs to correspond with applicants, including to send a link to the official electronic copy of the license when an application is granted.

The FCC is transitioning to fully electronic correspondence and no longer mails hard-copy licenses. Amateurs are able to view, download, and print their official license grant, using the ULS. When a license is first granted, each applicant will receive an email with a direct link to the license. Although the link expires in 30 days, the license itself will remain available in the ULS and may be downloaded at any time by signing into the licensee's account using their FCC Registration Number (FRN) and password.

On or after June 29th, a valid email address must be provided with each application, and must be kept current by filing a modification application as necessary. Under the amended Section 97.23, "The email address must be an address where the grantee can receive electronic correspondence. Revocation of the station license or suspension of the operator license may result when correspondence from the FCC is returned as undeliverable because the grantee failed to provide the correct email address."

Applicants lacking an email address should consider using the email address of a friend or family member on their FCC applications.

Reminder: Due to changes the FCC has made to its licensing system, starting Thursday, May 20th, all amateur exam applicants must provide their **FRN** to the Volunteer Examiners (VEs) *before* taking an amateur exam. Prospective new FCC licensees will be required to obtain an FRN before the examination and provide that number to the VEs on the Form 605 license application. An FCC **instructional video** provides step-by-step instructions on how to obtain an FRN through the FCC's Commission REGistration System (CORES).

The FRN is used afterward by the applicant to download the official license document from the FCC's Universal Licensing System (ULS), to upgrade a license, apply for a vanity call sign, and to submit administrative updates (such as address and email changes) and renewal applications.

The FCC is seeking comment on the impact of the continuing global shortage of semiconductors. The FCC's May 11th **Public Notice** stated its concern is focused on the impact the shortage could have on the communications industry, agency initiatives, and the nation's continued advancement in next-generation technologies.

FCC Acting Chairwoman Jessica Rosenworcel commented: "The communications sector is one of the fastest-growing segments of the semiconductor industry. These tiny pieces of technology are the basic building blocks of modern communications — including 5G, Wi-Fi, satellites, and more. That is why we are seeking to better understand the current shortage, its consequences for the communications sector, and steps we can take to ensure that FCC priorities and initiatives remain on track."

Interested parties may file comments online using the FCC's Electronic Comment Filing System. Initial comments are due on June 10th, and reply comments are due on June 25th.

The New Zealand Association of Radio Transmitters (NZART) announced recently that negotiations with regulator RSM were successful in accommodating 60-meter operation for New Zealand radio amateurs.

Following the end of the two-channel 60-meter "trial" in New Zealand during 2020, hams there will now have access to a WRC-15 Amateur Secondary Allocation of 5351.5 – 5366.5 kHz with a maximum allowable power of 15 W EIRP (about 9.14 W) by applying for a **sub-license**.

An **FAQ** on the new licensing system for 60 meters has been posted. Scan and **email** your completed form to NZART Headquarters. Once acknowledged by return email, applicants may begin operation. This trial will be for 12 months, to allow RSM to assess if any interference issues arise. If none do, then NZART will negotiate with RSM to have the 60-meter band added to the General User Radio Licence, obviating any need for a sub-license in the future.

— Courtesy of Paul Gaskell G4MWO, Editor, the 5 MHz Newsletter, via the American Radio Relay League

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!)

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Donation \$5



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Breakfast & Lunch will be available!



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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:
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(check quarter _____)
(check one)

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

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

Name(s): _____

Name: _____

Address: _____

City, State: _____

Home Phone: _____

Email Address: _____

New Members Only:

☐ I do NOT want to be added to the Club E-Mail Reflector

☐ I do NOT want to be added to the Electronic Newsletter Mailing List

[If you have an Email address, you Will be added to both lists UNLESS you choose to Opt-Out]

Signature: _____

Call Sign: _____

License Class: _____

Expires On: _____

Work Phone: _____

Birthday: _____

ARRL Member? ☐ Yes ☐ No Family ARRL Member? ☐ Yes ☐ No

Date: _____

Amount Enclosed: \$ _____

N3RDV has requested that all membership requests and renewals include an application so that his information is up to date

Please make your check or money order payable to the club treasurer, Mark Stabryla.
The Wireless Association of South Hills, Inc. reserves the right to accept or reject new memberships or renewals.
Please return completed membership form along with check/money order to the club treasurer or mail to:

WIRELESS ASSOCIATION OF SOUTH HILLS, INC.
c/o Mark Stabryla N3RDV, VP/Treasurer
1120 McKnight Drive
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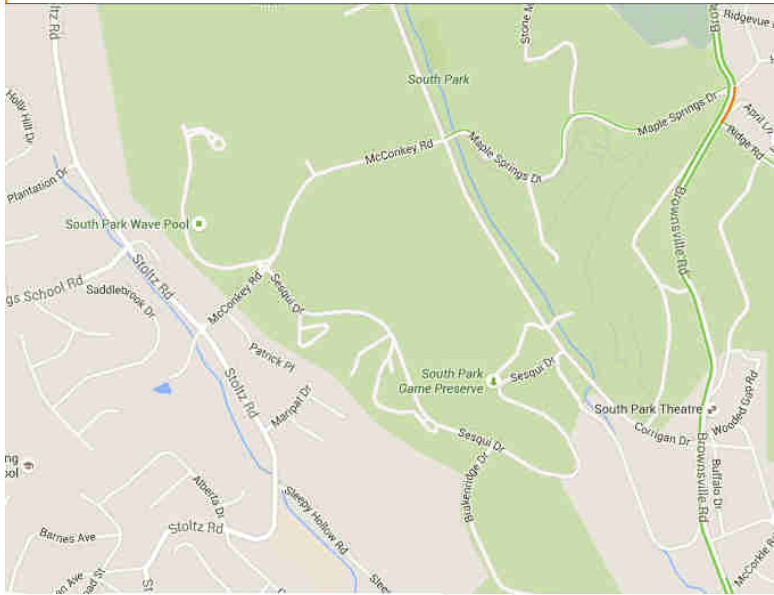
Directions to the **W3D** Field Day 2021 Site

Babcock Grove is located on Sesqui Drive in South Park. (See map below left)
Enter South Park (from either Library Road or Brownsville Road) and proceed to Corrigan Drive.

From Corrigan, turn onto McConkey (opposite side of the light is Maple Springs Drive), head towards the Wave Pool.

At the entrance to the Wave Pool parking area (on the right), turn LEFT onto Sesqui Drive

Follow Sesqui Drive to Babcock Grove (on the right side)



The **WASH**Rag

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