



# The **RADIOGRAM**

When All Else Fails ~ Amateur Radio Works

~ Official Newsletter of the Portage County Amateur Radio Service, Inc. ~

PCARS - the 2018 Hamvention® Club of The Year

April 2022 - Volume 17 Number 4

Build the FT-Great: Brick Appliance Makes QSOs While You Sleep!

Page 13.2

# QRM

## Dominating 7.200 MHz



**ARGH** The national association for **GREASY HAMS**

May 2021 [www.arghorg.pdq](http://www.arghorg.pdq)

DEVOTED ENTIRELY TO GETTING "SWRs" DOWN



### QRM Reviews

**Slim Jim Antenna**  
Made of *Real Slim Jim™*  
Meat Snacks

**General Tso's UV-35R**  
35 Mile Handie-Talkie

**Axe-Up™ Body Spray**  
for Hygiene-Challenged  
Hams



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The cover photo has absolutely nothing to do with anything in this newsletter - April Fool !!!



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BRACE YOURSELVES



Portage County Amateur Radio Service



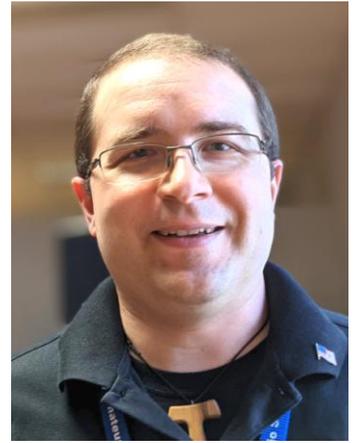
2018 Hamvention® Club of the Year



## From the President



**Nick, AC8QG**  
PCARS President



Spring is finally here! That means I'm running out of excuses for putting off several projects. It also means I need to make sure any important equipment is secured against any over aggressive spring cleaning efforts. "Do you need all of this junk?" Yes. Yes, I do.

Spring also brings the anticipation of another Dayton Hamvention. It's been a long wait, but it looks like we'll finally get back out to Xenia and enjoy the fun and chaos that is one of the best Amateur Radio gatherings of the year. For any new Hams who haven't yet had the opportunity to experience Hamvention, I'll just say it's a lot of fun and I hope you can make it out this year. It's an amazing chance to meet a lot of Hams from all over the country and the world. There are lots of shiny toys to look at and some not-so-shiny toys too, but the people are what make it special.

**Speaking of Hamvention, Carole WB2MGP asked me to thank all of PCARS for "supporting our fabulous young hams at the Hamvention Youth Forum." As the father of young hams, I am also very grateful for your generosity in support of this event and your ongoing support of youth in Amateur Radio. We raised a grand total of \$325.00! Thank you all!**

Another thing on the spring agenda is planning for Field Day 2022. We have a great team stepping up again this year, but they need some help. We need operators, loggers, and volunteers to help set up and teardown. Look for more information in this newsletter and keep an eye open for several QST emails with more information.

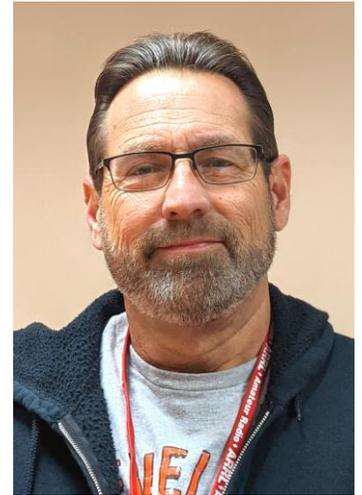
I've come to realize that the best ambassador for any hobby is a person who is actively enjoying that hobby. Based on that logic, I believe that PCARS members are excellent ambassadors for Amateur Radio. Our members are always active and they are always having fun! I love hearing about the projects, exotic QSOs, new technology, old technology, POTA activations, public service events, experiments, or whatever. But the best part is when I hear about those activities from non-hams. I get emails from people who met a PCARS member and want to learn more about Ham Radio. I meet people who saw some PCARS members playing radio in a park and now they're studying for their Tech exam. So, keep up the good work and keep sharing the "Big Fun" with others!



## From the Vice President



**Mike N8WCP**  
PCARS Vice President



Are you on Facebook? If you are, “Like” and follow the Portage County Amateur Radio Service Inc. page to view and share with your friends the latest club news. There’s also a PCARS group to stay in touch with fellow members.

Our March club meeting was well attended both in-person and on Zoom. Stan, N8BHL discussed the planning taking place at the state and local level to handle the influx of people to Ohio to view the 2024 eclipse on April 8th. The path of totality covers all of Portage county and with the Turnpike running through the county, we can expect a large invasion of eclipse watchers since the next total eclipse over the USA won’t be until 2044! Stan’s presentation can be viewed on our Facebook page.

At our April meeting, C. Matthew Curtin, KD8TTE will present on ECOMM and CERT. Rick, K8CAV runs our ECOMM program and we have some members involved in CERT (Community Emergency Response Teams). This presentation should be beneficial for new hams interested in disaster preparedness and response.

The 2m/70cm antenna build was a success! It was great to see club members working together to build and test their new antennas. Many thanks to John, WG8X for organizing this event!

Preparations for Field Day 2022 are underway. Field Days is the most popular ham event and allows us to test our emergency preparedness and technical skills while having fun! We encourage our members to get involved either as operators, setup/teardown, or support staff. Keep an eye out for PCARS QST’s, the club newsletter and Facebook posts regarding this event on June 25-26.

We still have a few openings for appointments and committees, please review the last page of the newsletter and let Nick, AC8QG know if there is a position you would be interested in.

Do you have a suggestion for a presentation or build project? Send me an email at: [vicepresident@portcars.org](mailto:vicepresident@portcars.org).



**PCARS K8BF**  
The Club that puts the FUN in Ham Radio!



## Schedule of Events



*We plan to add to the schedule as we bring back more in-person events.  
Look for announcements in QST emails, on the website,  
on our weekly net, and in future newsletters.*

*If you're not feeling well, please stay home and join us by Zoom if instead. We'll  
continue to offer Zoom as an option wherever it makes sense to do so.*



- April 2<sup>nd</sup> - VE Testing at the PCARS Club Site in Ravenna - Starts at 10 am
- April 4<sup>th</sup> - PCARS Board Meeting at the club site & Zoom - 7 pm
- April 11<sup>th</sup> - PCARS Meeting - Kent American Legion & Zoom - 7 pm
- April 15<sup>th</sup> - Tax Day - Hope you remembered to get your taxes submitted
- May 2<sup>nd</sup> - PCARS Board Meeting at the club site & Zoom - 7 pm
- May 14<sup>th</sup> - PCARS Meeting - Kent American Legion & Zoom - 7 pm
- May 20-22<sup>nd</sup> - Hamvention 2022 in Greene County - Xenia , Ohio

First Tuesday - **Digital** - Moderator: Rick, K8CAV - **On Zoom Only** -

Second Tuesday - **Portable Ops** - Moderator: John, WG8X

Third Tuesday - **Antenna** - Moderator: Tony, WA8AR

Fourth Tuesday - **DX & Contest** - Moderator: Chuck, W8PT

**Fourth Thursday** - **Net Night at the Club Site** - 6:30 pm - Moderator: Tom, WB8LCD

## PCARS Patches & Stickers



PCARS logo patches (iron on) & stickers (stick on) are now available!!

Put the patch on your hat, your shirt, your jacket and show off that PCARS logo!! The patch is about 3". The embroidery on the white patch is in Red, Black



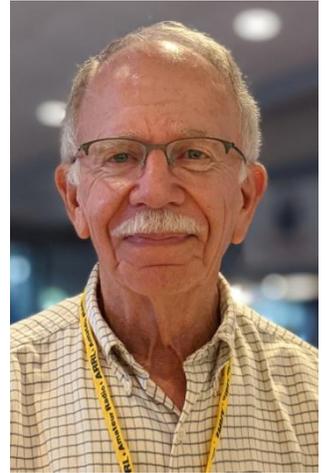
and Blue. Cost for a patch is only \$2.00 each and can be obtained at any PCARS meeting. There are 2 types of stickers available - a 4" x 6" oval and a 3" x 10" bumper sticker. Stickers are \$1 each. Show your pride in PCARS - Wear a patch, use the stickers! See the club Treasurer: **Greg, KA8TOA** or e-mail him at: [Treasurer@portcars.org](mailto:Treasurer@portcars.org)



# From the Great Lakes Division Director



**Dale, WA8EFK**  
ARRL Great Lakes Division Director



**Greetings, welcome to "Dale's Tales" for April 2022**

## ARRL WEB PAGES.

We endured a little outage on the ARRL web pages over this past weekend as some updates were loaded into the system. Well, it was a little more than a little, but I hope you all have had the opportunity to look over the new design. It has been a long time in planning and admittedly the pages were getting a bit long in the tooth. The new look does have a familiar appearance, just enough to be recognizable as our pages. As you log onto the new pages, you will be asked to update some of your information. Follow the prompts and make it happen.

## HAMFESTING:

Attendance has been looking good at the recent hamfests we all have been fortunate enough to attend. These past two years have meant some changes and restructuring of swap venues as clubs accommodate the requirements of how communities and organizations are coping with the Covid19 pandemic. Indications are that work-arounds have been effective.

We take note that date changes often result in multiple swaps on the same date. Working with ARRL HQ and local Section Managers, we attempt to keep everyone advised of these date conflicts. It simply is not possible to avoid them all but we are thankful that our Great Lakes Division clubs are truly interested in cooperating to everyone's benefits. Recently, several groups have taken significant steps to adjust their swap schedules.

Rest assured that your Section Managers, Vice Director and I are doing everything we can to insure ARRL is represented at swaps across the Great Lakes Division. Renewing friendships after some absence has been heartwarming for us and I hope for each of you as well. We do face some time conflicts, more swaps than available weekends for example, but the five of us are spreading the load to be at as many as we can. Please stop at the ARRL table and say hello and let us know how we are doing. We always encourage input from our members and hamfests offer one of the best ways for you to make us aware of your concerns.

## ARRL FIELD SERVICES AND ARES®:

The Emergency Communications/Field Services Committee, recently created by the ARRL Board of Directors is engrossed with more than 50 tasks in its program to bring the ARRL Field Services organization up to date and more in touch with members. Four sub-committees have been created to examine the highest priority needs. Currently those are ARES®/Auxcomm, National Traffic System, SM/Directors/Field Organization Guidance, and improving support for Amateur Radio Clubs.



## From the Great Lakes Division Vice Director



**Scott, N8SY**  
ARRL Great Lakes Division Vice Director



### Scott's Notes for April 2022

“April showers bring May flowers and May flowers bring Dayton Hamvention!!!” Yes, Dayton is back. It promises to be bigger and better than ever this year. Not having it for a couple of years will definitely bring out the desire for everyone in the country to want to come to Dayton and see it for themselves! We also have a very big list of other great Hamfests scheduled in the Great Lakes Division as well. Dale has the complete list compiled and listed below.

While we're on the topic of Dayton Hamvention, did you see that Hamvention gave out two awards in the Great Lakes Division this year? The Amateur of the Year Award went to none other than Jim Simpson, KF8J, of Xenia, Ohio and Club of the Year Award went to The Highland Amateur Radio Association of Hillsboro, Ohio. What an honor it is to have both winners from the Great Lakes Division. Congratulations to both!!!

April 18th is World Amateur Radio Day (WARD). On World Amateur Radio Day, all radio amateurs are invited to take to the airwaves to enjoy our global friendship with other amateurs, and to show our skills and capabilities to the public.

This is not a contest but rather an opportunity to “talk” about the value of amateur radio to the public and our fellow hams. It is also a great opportunity to talk about your radio club and amateur radio to your local media as a lead-up to ARRL Field Day and other ham radio related activities in your community. Want more information about World Amateur Radio Day? Here's a link... <http://www.arrl.org/world-amateur-radio-day>

Now, for all the contesters out there, April has a bunch of them for sure. In fact, too many to post them all here. But, if you are interested in just having some fun, here is a link to a schedule of all the contests for the month of April... <https://www.contestcalendar.com/fivewkcal.html>

That is going to do it from here this month. Stay safe and “**Catch Me On The Air or at a hamfest**”!!!



**PCARS K8BF**  
*The Club that puts the FUN in Ham Radio!*



# PCARS VE Testing Information & News

**Tom, KB8UUZ**  
PCARS VE Team Liaison



Due to the COVID 19 concerns, PCARS had shut down in-person VE testing to ensure the safety of our VE team members and the applicants that wanted to take a test for their new amateur radio license or to upgrade. **We will have a VE Test Session April 2<sup>nd</sup> at the club site starting at 10 am.** Masks are encouraged.

**\*\*\* Check the website for the latest information \*\*\***

If you have any questions, don't hesitate to contact me at [KB8UUZ@gmail.com](mailto:KB8UUZ@gmail.com) On behalf of the VE team at PCARS, we all look forward to seeing you at the PCARS club site in Ravenna so you can take your license test. Face masks are not State/County mandated at this time, but you are always welcome to wear one.

PCARS VE sessions are scheduled for **10:00 am** on the first Saturday of every even numbered month at the PCARS club site in Ravenna.

**April 2<sup>nd</sup>, June 4<sup>th</sup>, August 6<sup>th</sup>, October 1<sup>st</sup>, December 3<sup>rd</sup>**

**WALK-INS will be accepted.**

- **You must have your FRN prior to taking an exam** - No SSNs will be used on the Form 605 anymore.
- **If you are sick, have a cough, a high temperature or have been exposed to COVID-19 or someone that has been infected** - please, *do not* come to the club site. *Use of masks is still encouraged.*
- **No food or snacks allowed.**
- **\$15.00 Fee Payment will only be by check or exact change. We cannot make change**
- **If paying by check, make check out to: "ARRL-VEC" The VE Fee is \$15.00**
- **Ensure you have the following:**
  - A picture ID such as a valid Driver's License, State ID, School ID, or US Passport.
  - If you are under 16 years of age, a parent or guardian must be able to vouch for you and you need a copy of your birth certificate (you do not have to give us a copy, we just have to see and verify).
  - **FCC is requiring you have your e-mail address on the Form 605.**
  - **If you are taking a Technician test you must have your FRN number** (you can apply for an FRN on the FCC website). For hams having a license, your FRN is printed on your license.
  - **If you are upgrading to General or Extra - You MUST bring your original valid amateur radio license and a copy of your valid amateur radio license to turn in with your Form 605.**
  - Bring your own pencils and pens.
  - Calculators are okay to use (if you need one) as long as the memories are cleared.
  - NO cell Phones allowed



Any questions? Contact [KB8UUZ@gmail.com](mailto:KB8UUZ@gmail.com)

## Additional Information - What to Bring to the Testing Session

- If you've already passed a test: The original (and one copy) of any document that you will use to prove you've already passed a test element.

These documents may include:

- An unexpired Certificate of Successful Completion of Exam (CSCE) indicating the credit(s) earned.
- Original and copy of a pre-March 21, 1987 Technician license (this provides credit for the Element 3 [General] exam) - you **must** be currently licensed to get this credit.

Expired License? Original and a copy of your expired Amateur Radio License - you must take and pass Element number 2 to reinstate your license.

## **ARE YOU GOING FOR YOUR TECHNICIAN LICENSE? READ THIS IMPORTANT INFORMATION**

### **First-Time Exam Applicants MUST Obtain FCC Registration Number BEFORE Taking Exam**

As of **May 20, 2021**, all amateur examination applicants are **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. Applicants will create an FCC username and account, respond to the verification email from FCC, and then register for the FRN. Register on the FCC's Commission Registration System (CORES): <https://apps.fcc.gov/cores/>

### **Social Security Numbers are *NO LONGER ACCEPTED* at Exam Sessions**

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 - it is printed on your current license. 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 (<https://www.fcc.gov/rofrn>) provides step-by-step instructions on how to obtain an FRN through the FCC's CORES system. 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) (<https://www.fcc.gov/wireless/universal-licensing-system>), upgrade the license, apply for a vanity call sign, and to submit administrative updates (such as address and email changes) and renewal applications.



### **Email Addresses REQUIRED**

As of **June 29, 2021** 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.

### **New FCC \$35 Amateur Application Fee - Effective as of April 19, 2022**

**March 23, 2022** - The FCC released a [Public Notice](#) stating that the amateur radio application fees, including those associated with Form 605 application filings, would become **effective on April 19, 2022**. The Federal Communications Commission's authority to impose and collect fees is mandated by Congress.

The \$35 FCC Application Fee Will Not Apply To Amateur Radio License Upgrades. The Federal Communications Commission (FCC) staff has clarified in response to an ARRL request that the new \$35 application fee will not apply to most license modifications, including those to upgrade a licensee's operator class and changes to club station trustees. The FCC staff explained that the new fees will apply only to applications for a new license, renewal, rule waiver, or a new vanity call sign. As previously announced, the new fees take effect on April 19, 2022. *"We are pleased that the FCC will not charge licensees the FCC application fee for license upgrade applications,"* said ARRL Volunteer Examiner Coordinator (VEC) Manager, Maria Somma, AB1FM. *"While applicants for a new license will need to pay the \$35 FCC application fee, there will be no FCC charge for future upgrades and administrative updates such as a change of mailing or email address. Most current licensees therefore will not be charged the new FCC application fee until they renew their license or apply for a new vanity call sign."*

**VECs and Volunteer Examiner (VE) teams will not have to collect the \$35 fee at exam sessions.** Once the FCC application fee takes effect, new and upgrade **applicants** will pay the \$15 exam session fee to the ARRL VE team as usual and pay the \$35 application fee directly to the FCC by using the CORES FRN Registration system ([CORES - Login](#)). VEC and VE team licensing procedures will not change.

When the FCC receives the examination information from the VEC, it will email a link with payment instructions to each successful candidate. The candidate will have **10 calendar days**, from the date of the application file number being issued, to pay. After the fee is paid, and the FCC has processed an application, examinees will receive a second email from the FCC with a link to their official license. The link will be good for 30 days.

Per usual procedures, examinees that pass multiple exams at one session, will have one application transmitted to the FCC reflecting the highest level license class earned. Again, our procedures will not change. The candidates will have an extra step before the license is issued. VE teams can point candidates to our FCC Application Fee webpage [www.arrl.org/fcc-application-fee](http://www.arrl.org/fcc-application-fee). Our

new ARRL VEC CSCEs also include information about the application fee and points candidates to the webpage.

Additionally, the FCC stated that applications processed and dismissed will not be entitled to a refund. This includes vanity requests where the applicant does not receive the requested call sign. However, returned applications that are missing information will not require an additional fee, if the missing information is given to the FCC within the proper amount of time.

### Youth Licensing Grant Program

Anticipating the implementation of the fee in 2022, the ARRL Board of Directors, at its July 2021 meeting, approved the "ARRL [Youth Licensing Grant Program](#)." Under the program, ARRL will cover a one-time \$35 application fee for license candidates younger than 18 years old for tests administered under the auspices of the ARRL Volunteer Examiner Coordinator (ARRL VEC). Qualified candidates also would pay a reduced exam session fee of \$5 to the ARRL VEC. ARRL is finalizing details for administering the program.

Further news and instructions will follow as the FCC releases them. Details for the ARRL Youth Licensing Grant Program will be similarly posted, when available.

ARRL VEC Application Fees webpage: <http://www.arrl.org/fcc-application-fee>

ARRL News Story: <http://www.arrl.org/news/new-amateur-radio-license-applications-fee-to-become-effective-april-19-2022>

FCC CORES Video Tutorials: <https://www.fcc.gov/licensing-databases/fcc-registration-system-cores/commission-registration-system-video-tutorials>

FCC Registration Help: <https://apps.fcc.gov/cores/publicHome.do?help=true>

### New Technician Question Pool Released, Effective July 1, 2022

The National Conference of Volunteer Examiner Coordinators (NCVEC) Question Pool Committee (QPC) has released the 2022 – 2026 Technician Class FCC Element 2 NCVEC Question Pool Syllabus & Question Pool into the public domain. It's available as a Word document or PDF. The three graphics required for the new Technician question pool are available within the documents, or separately as PDF or JPG files.

The new pool incorporates some significant changes compared to the 2018 – 2022 pool. Its 257 questions were modified slightly to improve wording or to replace distracters; 51 new questions were generated, and 62 questions were eliminated. This resulted in a reduction of 11 questions, bringing the total number of questions in the pool from 423 to 412. The difficulty level of the questions is now more balanced, and the techniques and practices addressed have been updated.

The new 2022 – 2026 question pool is effective July 1, 2022 – June 30, 2026, and *must* be used for Technician-class license exams administered on or after July 1, 2022. — *Thanks to NCVEC Question Pool Committee*



**PCARS**

**ARRL Volunteer Examiners:  
serving the Amateur Radio  
community**

**First Saturdays 10:00 am  
at the club site in Ravenna**

**February, April, June, August,  
October, December**

**AMATEUR RADIO  
ARRL  
VEC  
VOLUNTEER EXAMINER**

# Hamvention® 2022



## Dayton Hamvention® - It's a Go for 2022

Hams and vendors hoping to attend Dayton Hamvention® 2022 have been asking what, if any, COVID-19 regulations will be in place at the event. Hamvention management says it's monitoring the situation closely. **Hamvention General Chairman Rick Allnutt, WS8G**, issued a statement:

*"We strongly anticipate that Hamvention 2022 is a go. We cannot guarantee what government may decide about unknown changes in the pandemic. It has become obvious that the State of Ohio is very unlikely to call a halt to large gatherings anytime soon. Despite a recent large spike in [Omicron-variant] COVID cases and hospitalizations, there is no move to restrict large indoor or outdoor events such as sports events,"*

Allnutt added that he anticipates that the official state guidance may be to recommend -- not require -- face masks and social distancing, but does not expect to be checking attendees' vaccination status on site. Hamvention will support state guidance. Some have asked whether COVID-19 testing will be available at Hamvention. At this time, there are no plans to have testing on site. Updates on Hamvention and COVID-19 regulations related to the event will be posted on the [Hamvention website](#).

**Hamvention®**, an ARRL-sanctioned event, will be held May 20 - 22, at the Greene County Fairgrounds and Expo Center in Xenia, Ohio.

# ARRL AT HAMVENTION®



## MAY 20-22, 2022

Visit the ARRL exhibit area for the latest information on ARRL programs and services, including:

- Radiosport and DXCC Card Checking
  - Amateur Radio Emergency Service®
  - Development and ARRL Foundation
  - Education and Learning
- ...and much more!

### PLUS!

Meet with ARRL program representatives, join, renew, or extend your membership, and purchase your 2022 Field Day gear!



## Antenna Build Day was FUN

**John, WG8X**



Several Hams got together on Saturday, March 12th for a group build on some Open Stub J-Poles. The idea was presented to the board two years ago before COVID shut us down. Now that things are relaxing, it was time to convert the plan into action.

As you can see from the pictures, the antenna isn't real complex, but does require a lot of drilling & tapping. That part of it was done in my home shop over the winter. The aluminum was sourced before the prices went crazy. Because of that, we were able to offer the antenna kits for only \$30, which was the cost of materials. 14 antenna kits were produced for the build. Of those, about a half-dozen were picked up to be assembled at home by the purchaser. Since I live in Alliance, it's tough for most to drive down to my house. So, we met at local plazas in the Kent area.

This antenna is sold commercially as the Arrow Antenna (M#GP 146/440). In the past, Allen, N0IMW has been kind enough to post the plans on the web for those of us who sometimes enjoy building our own antennas. I tried to find his plans and testing info recently, and was unsuccessful. If you'd like a copy of this, please email me (<mailto:John@wg8x.net>), and I'll be glad to send it in PDF format.

Interest in the antenna was intense, with all 14 kits selling out in no time. There was more interest than we could accommodate this time around. Perhaps we'll try this again in the fall. This is dependent on the price of aluminum of course. The first build scheduled for a Saturday in February had to be cancelled due to some health problems on my part. But, two weeks later, we managed to get several Hams together at the club site for the purpose of building some tough UHF/VHF antennas.

Thanks to all who participated, and supported this activity. A big thank you goes to Rick, K8CAV. He brought his Nano-VNA, and was testing the completed antennas. That Nano-VNA is one slick device that I hope to add to my workbench someday.

If you'd like to build one of these antennas for yourself, you can find plans at <https://nt1k.com/open-stub-j-pole-project-completed-many-times/>



# Happy Birthday PCARS Members

PCARS members having their birthday in **April**:

KE8LWP	Agnes
AE8ET	Lily
KE8LWL	Mark
KC8FQV	Mark
N8QE	Bob

W8JJW	John
KW8KW	Bill
WB2DFC	Dave
K1ZZ	David
KE8EGG	Alice



## Two New Canadian QSO Parties



### CANADIAN PRAIRIES QSO Party



We hope you will try our VERY FIRST QSO Party:  
 Date/Time: 1700Z, Saturday, May 14 to 0300Z Sunday May 15, 2022  
 Bands: 10, 15, 20 and 40m  
 Modes: CW and SSB only (No digital) <https://cpqp.ve6hams.ca/>

### Québec QSO Party

This year the event will be held on April 17th 2022 from 12H [UTC] to 20H [UTC].



The amateur radio club “Club de Radio Amateur de l’Outaouais” is proud to sponsor the Québec QSO Party 2022. We would like to promote the Amateur Radio as an hobby and let all the North America discover the beautiful province of Québec. <https://wp1.quebecqsoparty.org/>



# CQ POTA - CQ POTA - CQ POTA



**Brandon, KE8ARB**

Several months ago, I had the opportunity to purchase one of the first QDX units from QRP Labs. It was quite the adrenaline rush to watch the inventory numbers drop, servers crash, and 500 new QDX orders get placed.



During that time I ordered one despite not having decided if I even wanted it yet. For those who are unfamiliar, the QDX is a digital only, QRP transceiver capable of 5W on the 80M, 60M, 40M, 30M, and 20M bands. You can build it to be powered by either a 9V or 12V power supply. It requires a computer with software that can do FT8, RTTY, etc. I elected to get the aluminum case for an additional \$20.

My recent POTA interest had me looking for lighter gear, that uses less battery, that I can use to activate parks. Could I do more with less? Are there lighter solutions that require less power? Do these things actually work in the field? All of these questions rekindled my interest in finishing up my build.

The kit comes with a PCB with all the surface mount components installed. You are required to install the thru-hole parts and wind up your share of torroids. The instructions for the build are very thorough and walk you through all the things that could be perceived as ambiguous or vague.



I jumped ahead slightly and installed all the plugs. From there you begin winding all the inductors, and low pass filters. These are fairly small, but were not terrible to get wound. There are notes in the instructions about the direction of the windings. While it does not affect the performance, it will affect how the torroids fit on the board. The first one you wind is called the tapped inductor. There are a total of 41 turns with several taps in between the turns along the inductor. They are switched in and out depending on the band you're using.



From there I started winding the primary transformer. The way I intend to use my QDX is directly from a 12V lithium battery. This is not what they recommend, but it is something they show you how to setup should you choose. This transformer has two windings. On the 12v build you do 3:2.

At this point you wind all the low pass filters, and a trifilar torroid. The instructions show you that the band pass filters can be measured individually using the firmware on the QDX. You can make adjustments to get the absolute most from your radio.

Now I'm going to share a few secrets here because I want you to know what you're getting into should you decide to build one of these. The trifilar windings are very tricky to get right. You need to organize the taps from each leg and get them in the proper orientation on each side so that the radio will function correctly. This takes a lot of finesse and fiddling to strip the enamel, match the ends of the wire, and then get it aligned with the board. Once I had all of the torroids the way I wanted them, I "supported" them using some silicone caulk I had in the basement. People have warned that this can attack



the enamel on the wires and hold static, but it's what I had on hand and I thought it would do better than these things beating themselves to death in my pack while I hike around.

The other secret is that the first batch of QDX had an issue with a surface mount resistor that was not discovered until the production run had been produced. It was acting like an inductor some how and needs to be boded. You must take your soldering iron and carefully remove the resistors that are there. I did this by loading up an almost full drip of solder on the iron, setting it right on the resistor, and then it pulled the resistor right up onto the iron. A few plunges into the cleaning sponge and on to the next one.

Once the resistors are off, you need to decide where to install the supplied replacement resistors. For me this took a little figuring. There are several options, and I used a small ball of clay to hold the part in place while I soldered it.



Those bodes took a steady hand but were not terrible when using the clay to hold the part in place. The next run of QDX boards has different components and is shaping up to be a better listener as well. These kinds of kits are very rewarding to me even if I understand very little about what the transceiver is actually doing. I enjoy building, testing, adjusting and using something that I built myself. This radio has been performing great for me and I've already put a few batteries through it. I'm looking forward to many more!



## Skywarn Training

**Gregg, WB8YYS**

AEC Summit County  
Portage County Skywarn Coordinator



The National Weather Service will be conducting Skywarn Training classes in Summit and Portage Counties on April 5th and 14th respectively.

Details of how to sign up, times and locations when available can be found at: [https://www.weather.gov/cle/SKYWARN\\_schedule](https://www.weather.gov/cle/SKYWARN_schedule).

If you haven't been to a class in the past due to CoVid, it is important to attend as some things may have changed in the way the NWS issues warnings and specifically what they are looking for in your reports.

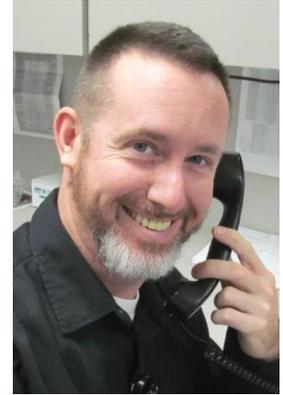
Skywarn Training Class is scheduled for  
Summit County on April 5th, 6 PM  
American Red Cross - 501 W. Market St. - Akron, Ohio  
Sign up at [https://www.weather.gov/cle/SKYWARN\\_schedule](https://www.weather.gov/cle/SKYWARN_schedule)

# SKYWARN



## Training Days

### John, KJ3X/QRP



To begin with, operating portable is what got me into ham radio. I had just gotten my Tech when the ARRL sponsored the 2016 NPOTA, and although I was excited to get on the air portable, I was just a bit late as I got my General and my first HF radio late December of the same year. To my delight, some members of the local US ham community picked up the torch and kept it going. Once I discovered that POTA was still an accepted activity, I got on the air and activated quite a bit from 2017-2019. Life got busy and I was fairly inactive on radio in general in 2020-2021.

In late January 2022, I mentioned to my wife how I missed POTA and wanted to get back into it. She supported it, so I snagged an IC-705!



The night before an activation, when I start prepping the items to go to the park, I was the typical Boy Scout and packed backups to backups. The phrase 2 is 1, and 1 is none, but I took it a bit far this time. I had my standard radio box and a second file box filled with backup equipment that I really did not need. Something I needed to

keep in mind was that the state game lands where I was heading was only 10 min away, so if something went wrong, I wasn't far from home.

### Saturday, March 5, 2022, 0813 local to 0834 local

Saturday started out cold, but good, in the low 30's. My son (K3JEX) was with me and he assisted in putting everything up and getting the small station going. After scanning around 40m for a bit, I found a less than optimal frequency to start calling on that had QRM from the contest. I didn't complain as they were there first and with my tiny 10w, who would listen?

Everything was running smoothly. I logged 20 strong contacts when all the sudden my computer screen went black. That is impossible, I thought - I just looked at my meter and it was at 82%. The battery usually lasts for at least 3 hours, but I grabbed my power cord and plugged it into the BPP-120. Nothing. The pack had power and the power cord had power, but the magnet connection to my MacBook Air was not registering. I fiddled with it for a few minutes and managed to get my computer to power back up, only for it to tell me it had 5% battery life left. Cutting my losses on the MacBook for the day, I closed it up and sprinted to my car where I keep a notebook and pen, but of course, the pen would not work due to the cold, so off I go to the car again to find a pencil. After I got this all in order, I logged 2 more contacts before getting overwhelmed with QRM.



Lesson learned: my almost ten-year-old MacBook Air needs a new battery!

Overall, I made 22 contacts, including one to PJ4G during the contest (just to see if I could). The PJ4G did all the heavy lifting!

My antenna, radio, and battery all worked well together. I didn't forget any important equipment, and I knew what I could trim my equipment list for the next time out.

### Sunday the 6<sup>th</sup>, 1306 local to 1349 local

After helping with a few household chores and grocery shopping, I decided to hop on the radio at the QTH to see what I was on the bands. Lo and behold, they were great! I knew the contest would be over soon, so I said headed back out to the park.



I was venturing out alone today, but I set up my dipole alone before, so not a big deal. What I didn't bargain for was the wind! Setting up the mast and dipole alone is typically not very challenging, but the wind kept trying to bend my small mast over. I should have seen what was coming but I am hard-headed. Eventually I prevailed in getting the mast up with the dipole happily on top in a tripod configuration with the 2 legs of the dipole providing 2 supports and a rope on the 3<sup>rd</sup> leg.

All was running well with my newly downloaded HamRS app on my phone; I can't speak highly enough about that app. Then, at contact 51, a huge gust of wind blew over my mast, thankfully not breaking anything, but cutting my activation short. I

didn't want to chance another blow over that might break something.

In closing, I was **VERY** happy with the 2<sup>nd</sup> activation:

- I packed just enough gear without tripling up on stuff and kept it in a small enough container I could essentially grab it and go,
- I proved that the android app worked well for logging contacts
- My 3ah battery linked to a 25w solar panel over a 45 minute period ended up adding more amps to my battery than the radio used.
- **I made 51 contacts, including 6 into Canada, on 40m all in less than 45 minutes!**

What I learned or loved:

- HamRS is worth the \$5.00
- Any time spent outdoors on the radio is a good time
- My linked dipole 40/20 works great!

73 and see you on the air.



# The Better Antenna: Copper Versus Aluminum

A highly scientific overview of aluminum and copper and how they function as conductors of electricity.

## Pete Varounis, NL7XM

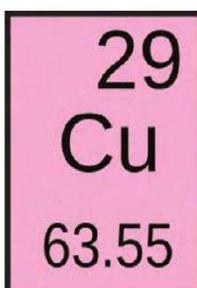
In the "Hands-On Radio" column from the March 2008 issue of *QST*, Ward Silver, N0AX, describes how metals conduct electricity. He said, "Electrons collide with the atoms that make up material as they flow through it. The collision transfers some of the electron's energy to the atoms, which vibrate in response. These vibrations increase the temperature of the material," and because of the resulting friction, electrons create power dissipation, which can be calculated as:

$$\text{Power (P)} = I^2 \times R \text{ or } P = E^2 / R$$

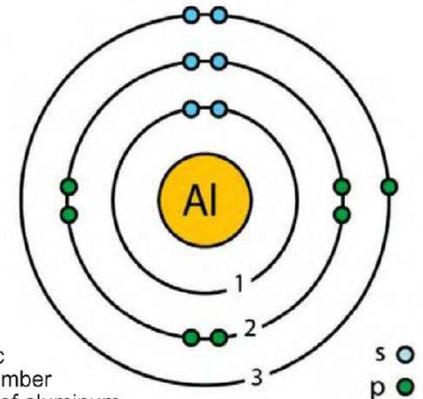
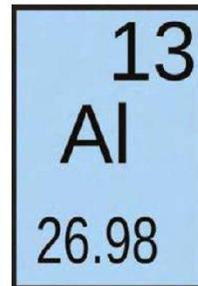
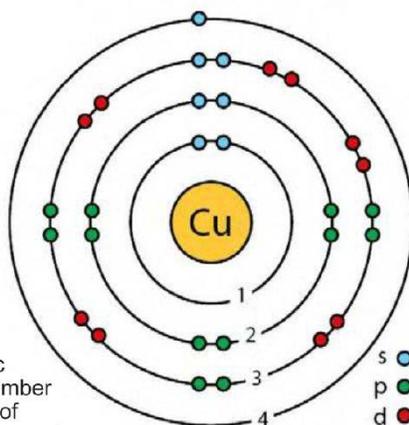
Let's assume we are feeding current to a copper wire dipole antenna. We would expect electrons encountering the antenna's first copper atom to navigate all the way to the far end of the antenna's last copper atom. But electrons are lazy, and will take an easier, more efficient process to accomplish the same result.

Much like a fire bucket brigade, an electron will instead simply replace another electron on one of its rings of the first copper atom it encounters, liberating that one electron to bump free an electron from the very next copper atom and so on, like an assembly line or baton in a relay race.

It becomes obvious that this permits individual electrons to travel much shorter lengths, and gives them time to rest before they have to work again.



Copper (Cu) is an element on the periodic table with an atomic number of 29. The Bohr model of copper (right) shows the nucleus surrounded by the 29 electrons. With one valence electron, copper is a good conductor of heat and electricity.



Aluminum (Al) is an element on the periodic table with an atomic number of 13. The Bohr model of aluminum (right) shows the nucleus surrounded by the 13 electrons. It has three valence electrons. Aluminum is a lightweight metal with a density lower than those of other common metals.

Copper has 29 electrons and aluminum only has 13. Therefore, copper is much more efficient, because it has more participating electrons distributing the workload before they have to be disturbed again.

All this can be proven with simple observations. The longer a wire antenna is up, and the more power you put into it, the more electrons will exchange places. This will make the electrons very, very tired, and when exposed to all kinds of cold and rainy weather, many will lose their grip, die, and fall off.

This is why, after a few years, all wire antennas will eventually start to sag.

All figures courtesy of Wikimedia Commons.

Licensed for 40 years, Pete is a Life Member of ARRL, Antique Wireless Association (AWA), and a Board Director of Quarter Century Wireless Association (QCWA). He is a Senior Member of RCA and A-1 Operator Club, the 2018 winner of the prestigious AWA Houck Award for Preservation, and the official US call sign historian for RCA and QCWA, maintaining a World-Class Call Book Library dating to 1909. Pete has worked closely with Executive Producer John Amodeo, AA6JA, designing custom call signs assigned to Tim Allen's fictitious characters from Fox TV's comedy *Last Man Standing*.

April 2022 *QST* [www.arrrl.org](http://www.arrrl.org)

## Owning a Shortwave Radio is Once Again a Subversive Activity

An abiding memory for a teen fascinated by electronics and radio in the 1970s and 1980s is the proliferation of propaganda stations that covered the shortwave spectrum. Some of them were slightly surreal such as Albania's Radio Tirana which would proudly inform 1980s Western Europe that every village in the country now possessed a telephone, but most stations were the more mainstream ideological gladiating of Voice of America and Radio Moscow.

It's a long-gone era as the Cold War is a distant memory and citizens East and West get their info from the Internet, but perhaps there's an echo of those times following the invasion of the Ukraine. With most external news agencies thrown out of Russia and their websites blocked, international broadcasters are launching new shortwave services to get the news through. Owning a shortwave radio in Russia may once again be a subversive activity. Let's build one!

There was a time when everyone had a radio, and radio listening was a universal occupation. From 1930s families clustered round an ornate family radio to the teenagers of the 1960s and 1970s with their portables, it's a defining 20th century image. Though many of us still listen to radio here in 2022 the chances are that we no longer do so over AM and certainly not over shortwave. We can get instant access to almost any content online, so it's by no means certain people will have a radio. If those shortwave transmissions are starting again, how can their intended audience pick them up? Perhaps it's time to look at shortwave radios with a 2022 slant.

If you lack a shortwave radio and a dig around all your family's junk hasn't turned up a relic from decades past, then the simplest way to get one is of course to buy one. AliExpress is full of "world band" radios starting from somewhere under \$20, and if you don't mind waiting for shipping from China then it's the path of least resistance.

But there's the problem, international events are moving fast and there might not be the luxury of waiting three weeks, or even for that matter of being able to order one at all in a warzone. How can you make one? Yet again there's an extremely simple option in the Silicon Labs series of one-chip radios. These provide a high-performance shortwave receiver with a minimum of external parts, and really are a miracle of integration. But yet again, in a warzone and in the middle of a chip shortage they just might not be an option. So how can you make a shortwave radio receiver using what parts might be at hand from available consumer electronics? We'll first be taking a look at some possible avenues, and then introducing a few of the readily available building blocks.

### WHERE DO YOU START?

The best way to start is to look at the things that you might already have. Such electronic flotsam and jetsam as battery-powered AM radios, car radios, or even \$10 RTL-SDR sticks. All of these can be modified or converted to receive the shortwave broadcast bands, often with readily available parts.

Probably the simplest method possible might be to directly modify an existing AM radio. I'm indebted to [Phil M6IPX] for passing me on an instructables link for a method to do this. It involves changing the resonant frequency of the ferrite rod antenna coil in the radio, and I'm guessing, relying on a harmonic of the local oscillator rather than the fundamental to do the mixing. It doesn't cover all the broadcast bands, but it might do at a pinch.

<https://hackaday.com/2022/03/17/owning-a-shortwave-radio-is-once-again-a-subversive-activity/>



# World Amateur Radio Day 2022

## World Amateur Radio Day, April 19, 2022

- **What:** 2022 World Amateur Radio Day
- **Who:** All amateur radio operators worldwide
- **When:** Monday, April 18, 2022 at 0000 UTC until Tuesday, April 19, 2022 at 0000 UTC
- **Where:** A global event covering all regions of the International Amateur Radio Union (IARU)
- **Why:** World Amateur Radio Day, held on April 18 each year, is celebrated worldwide by radio amateurs and their national associations which are organized as member-societies of the International Amateur Radio Union (IARU). It was on this day in 1925 that the IARU was formed in Paris. American Radio Relay League (ARRL) Co-Founder Hiram Percy Maxim was its first president.

Amateur radio experimenters were the first to discover that the short-wave spectrum could support long-distance radio signal propagation. In the rush to use these shorter wavelengths, amateur radio was “in grave danger of being pushed aside,” the IARU’s history has noted. Amateur Radio pioneers met in Paris in 1925 and created the IARU to promote the interests of amateur radio worldwide and to protect and enhance its spectrum privileges. Today, the IARU is a federation consisting of more than 160 national amateur radio organizations in as many countries and separate territories. The International Secretariat of the IARU is ARRL, the national association for amateur radio® in the United States.

On World Amateur Radio Day, all radio amateurs are invited to take to the airwaves to enjoy our global friendship with other amateurs, and to show our skills and capabilities to the public.

- **How:** World Amateur Radio Day is not a contest but rather an opportunity to “talk” about the value of amateur radio to the public and our fellow amateur colleagues. It is also a great opportunity to talk about your radio club and amateur radio in local media as a lead-up to ARRL Field Day (held each year during the fourth full weekend in June) and another ham radio related activity in your community – such as volunteers who serve in local emergency communication readiness including the ARRL Amateur Radio Emergency Service®.

### Here are just a few ways to participate in, and promote, World Amateur Radio Day:

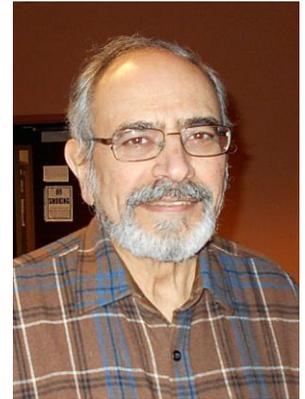
- Get a station on the air! Create your own personal “event” to talk about amateur radio to others, including family and friends.
- Find out more about World Amateur Radio Day by checking the IARU website and other Resources listed below.
- Create and hold a special net or on-air event on World Amateur Radio Day to raise the level of attention for the celebration, and to encourage other hams to talk about our hobby. Consider creating and offering a commemorative certificate for contacting your special activation. It can be an electronic one as these are cost effective.
- Get the word out! If you are an ARRL Public Information Coordinator, Public Information Officer, or responsible for radio club publicity, send a press release and conduct some public relations outreach to highlight the day and/or events. Talk about all of the activities radio amateurs have continued to support during the pandemic, and how amateur radio serves our communities. Find recent examples of amateur radio in-the-news at [www.arrl.org/media-hits](http://www.arrl.org/media-hits).
- Promote your personal World Amateur Radio Day activity(ies) on social media platforms like Twitter and Facebook by using the hashtag **#WorldAmateurRadioDay**. Make sure you send it to various clubs, reflectors, and media.

Join us in celebrating World Amateur Radio Day and all the ways amateur radio brings us together!



## Using Phonetics to Improve Communications

*Doug, WA8UWV*



If you've been a ham for a few years, you are probably aware of the phonetic alphabet and have used it or at least have heard it being used on the air. As a new ham, you might have encountered the phonetic alphabet while studying for the test but stashed it away in the back of your mind for later study if needed.

Phonetics is a science which can get very complicated when trying to create symbols to represent every conceivable sound present in all of the languages throughout the world. A brief search of the word "phonetics" on the internet will reveal this if interested. We are not intent on going there.

The phonetic alphabet we are concerned with as hams is sometimes referred to as the NATO Phonetic Alphabet. It is considered the "standard" for general use on the air. It is a list of words to use for representing corresponding letters of the alphabet. There is a very good reason to use this standard in all situations where you wish to not be misunderstood such as when giving your call sign, location or name to a rare DX station or any station under noisy conditions. It may be fun to create a unique set of phonetics to represent your call sign but that is not likely to improve communication of the intended text. WHY NOT?

When the standard phonetics are used time and time again you will eventually learn to associate that word with the corresponding letter subconsciously. The same mechanism that is used to interpret morse code would be at play. Instead of thinking of dit dit dah dit as the letter "F" you hear F when the that code is presented to your ear. So, instead of hearing the word "bravo" you would actually hear the letter B. If the station you are copying uses nonstandard words to represent the letters in their call sign, you would have to take the time to think how each word is spelled and then what is the first letter to associate with the words. By the time you have accomplished all that, the next two words (letters) have gone by and will have to be repeated." For example, my call is WA8UWV. If I say "whisky alpha eight uniform whisky victor" it would be readily understood. If I say "we all ate ugly white vegetables" it would take a while, if ever, to translate that to my call. (Listen for it. I sometimes "go off reservation" and use that.)

In the case of checking into a net, the Net Control Station is often required to report the call sign of stations reporting in. If a letter of the reporting station's call is misinterpreted, the NCS report will be in error. In the case of the PCARS net where ten check-ins for each week in a row will entitle you to a certificate, an error in reporting your call might cause a disqualification.

How easy is it for a letter to be misunderstood? I have often mistaken similar sounding letters.

As an example, the following groups of letters tend to sound similar.

Sounds Alike: **BCDEGPTVZ AJK QUW IY SX**

This group of letters tend to have unique sounds and are less likely to be mistaken.

Unique Sounding: **FHLMNOR**

As you can see, more letters have the potential to be mistaken than not. The results are highly dependent on the enunciation practiced by the speaker and radio conditions.

This article would be incomplete if it did not include a copy of the phonetic alphabet we use as hams.  
<https://www.popularmechanics.com/culture/a39297126/origin-of-the-nato-phonetic-alphabet/>

A search on the internet will reveal additional sets of phonetics which people have assembled for other purposes. They may have application in environments dedicated to specific purpose. These may be of interest to us for amusement but are not applicable to amateur radio communication.

Over time the Phonetic alphabet used by hams has changed. The ARRL list printed in the 1968 The Radio Amateur's Handbook was very different than the one in use today. The 1968 book also listed the ICAO alphabet which is the current NATO Phonetic Alphabet. (ICAO = International Civil Aviation Organization) This is also the same as the current International Telecommunications Union Phonetic Alphabet per the ARRL website. So, there is some convergence on a standard.

Thank you for your time and patient attention to this issue.

## phonetic alphabet



## POTA - More on that abbreviation

POTA - Parks On The Air? However - there may be another term when activating a POTA from a remote park out in the wilderness... **“POTA Pee Over There - Anywhere”**



# Hamvention® 2022 Announces Award Winners

**Chairman of the Hamvention Awards Committee Michael Kalter, W8CI, has announced the 2022 Dayton Hamvention® award winners.**

## Special Achievement Award

Kerry Banke, N6IZW, of La Mesa, California, received the Special Achievement Award. Banke, first licensed in 1961 and now retired, spent most of his career in the research and development of electronics systems as a microwave RF electrical engineer. This included 14 years as a Qualcomm engineer, developing innovative microwave wireless technologies. Banke's electronic interests span dc to light, with particular interest and expertise in microwaves. His ham radio operations have included transmissions on 136 kHz up to laser.

Banke's support to human spaceflight amateur radio started in 1994 when he served as a school technical mentor and certified ground station for the Shuttle Amateur Radio Experiment (SAREX) program. When NASA transitioned from SAREX to the International Space Station (ISS), Banke became a member of the Amateur Radio on the International Space Station (ARISS) hardware team. For 7 years, working from his home and electronics lab garage, Banke led the circuit design, breadboarding, flight circuit board layout, assembly, and testing of the ARISS-developed multi-voltage power supply. This compact power supply innovation serves as the backbone of the ARISS next-generation on-orbit radio system.

Banke's contributions to the recently launched ARISS hardware system has significantly enhanced current ham operations on the ISS. Additionally, they enable future amateur radio expansion and experimentation that will permit new educational and operational capabilities for youth and hams. Annually, hundreds of thousands of ISS ham contacts are made via the voice repeater and APRS digipeater and thousands of youth are inspired and engaged through ARISS ham radio connections with astronauts aboard the ISS.

## Technical Achievement Award

Adam Farson, VA7OJ/AB4OJ, of West Vancouver, B.C., received the Technical Achievement Award for his dedicated professional work with RF and telecommunications engineering issues and innovation. He has been a ham since he was a teenager.

Best known to the amateur radio community for his development of multiple sources of technical support for Icom radios, Farson started an Icom technical support net on 20 meters in the 1980s. He and came to know several senior Icom Japan engineers while living in, and traveling around, Japan while working. With each week's net, Farson helped hams solve challenging technical and logistical issues.

Farson has spent 3 decades creating an online resource for HF radios. His website -- a repository for highly technical information on Icom and other HF transceivers and amplifiers -- is now one of the most widely cited internet resources.

He independently performs measurements on nearly all new radios, including noise-power ratio, a measure he developed. His work includes producing the only data radio hobbyists have, which clearly delineates how modern software-defined radios (SDRs) perform across the spectrum of band noise levels. Farson has written multiple articles for technical and amateur radio journals. Recently, he penned a multipart series on modern HF solid-state amplifier design principles.



*Kerry Banke, N6IZW, 2022 Dayton Hamvention Award winner of the Special Achievement Award.*



*Adam Farson, VA7OJ/AB4OJ, 2022 Dayton Hamvention Award winner of the Technical Achievement Award.*

## Amateur of the Year Award

Jim Simpson, KF8J, of Xenia, Ohio, was named the 2022 Amateur of the Year. First licensed as a teen, Simpson built his first tower in 1966. He worked 39 states, including Hawaii, while living at home with his family. His first shack was in the corner of his dad's garage. Simpson built all his equipment from Heathkit.

He upgraded to a General-class license in the late 1970s. He built two towers at his current location in Xenia in 1980, a 100-foot guyed tower for HF antennas and a 55-foot, free-standing tower for satellite communications. Simpson operates on 80 through 10 meters, mostly using voice with some digital operations, as well as on 2 meters and 70 centimeters.

Simpson attended his first Dayton Hamvention in 1972. He was a member of the Hamvention committee for several years and was the first to use computers for the annual event to streamline recording data.

In 1974, a tornado devastated the city of Xenia, Ohio. In 1975, Simpson saw a way to serve the community, and as a young man, he founded The Xenia Weather Radio Network. He remains active in the organization.

Simpson was appointed Second Assistant to the Hamvention General Chair in 1983. In 1984 and 1985, he was appointed Assistant General Chair. He was appointed the Hamvention Chairman on the DARA Board for the 1986 and 1987 Hamvention events. Simpson has served on the Hamvention committee continuously since 1973. During that period, he introduced several technical innovations to the event and remains a senior advisor on the committee.

Over many years, he mentored many local hams and has been active in many amateur radio projects in and around Xenia.



*Jim Simpson, KF8J, 2022 Dayton Hamvention Award winner of the Amateur of the Year Award.*

## Club of the Year Award

The Highland Amateur Radio Association (HARA), K8HO, an ARRL Special Service Club located in Hillsboro, Ohio, has been named the 2022 Club of the Year. HARA was established in 1977 and serves a small rural population in Highland County, Ohio. As a result of ongoing licensing classes and mentoring sessions, the club reached an all-time high membership in 2021 with 143 members. Since 2015, membership has grown by 86 percent, and the membership is comprised of hams from 10 surrounding counties in southwest Ohio and two states. The club maintains five repeaters within Highland County, of which two are linked to provide a broader footprint. The club hosts a weekly 2-meter and 10-meter net, with an average attendance of 28. There are bi-monthly programs, as well as a monthly gathering called the "Brunch Bunch."



*The Highland Amateur Radio Association, 2022 Dayton Hamvention winner of the Club of the Year Award.*

The club has an excellent relationship with the local newspaper and leverages that relationship to make the community aware of its events and of the value and importance of amateur radio.

Hamvention 2022 is set for May 20 - 22 at the Greene County Fairgrounds and Expo Center in Xenia, Ohio. Xenia is about 16 miles east of Dayton, Ohio. For more information, go to the Hamvention website at [www.hamvention.org](http://www.hamvention.org).



**FOR SALE**

**WANTED**

**FOR SALE**

**WANTED**

**FOR SALE**

**FOR SALE: ICOM IC-7000.** transceiver, includes: **HM-151** Hand Mic; Heil ICOM **Proset adapter**; USB to CIV **CAT control cable**; **RTS programming** software w/USB cable; **MB-62** mounting bracket; **MB-105** separation bracket with the **OPC-1443** separation cable; original factory manual; two additional printed manuals; **Nifty Mini Manual**; has MARS out of band mod \$675.00 **Contact Rick, K8CAV** [k8cav.coms@gmail.com](mailto:k8cav.coms@gmail.com) [5/02/22]

### **Rick Tenan Estate Items FOR SALE.**

Complete Drake "B-Line" station in museum quality condition: R4B Receiver, T4XB Transmitter with custom cover, MS-4 Speaker and Cabinet with custom cover, MN-2000 Tuner with custom cover, AC-4 Power Supply and connecting cables, Drake W4 wattmeter, Shure 444 Microphone, Items were serviced and brought up to top operating condition by Jeff Covelli. \$1080 price for the **complete set**. Separate items are not for sale. Most manuals included.

Yaesu FT-990 HF Transceiver in excellent condition. MD-1 mic and manual included. \$675 - Kenwood TS-820 HF Transceiver in excellent condition with manual. VFO-820, SP-820 and MC-50 mic and connecting cables included. \$ 585 - Heathkit HX-30 6 meter transmitter and HA-20 Amplifier in average condition. Includes Comair LM-6N2C 6 and 2 meter manual tuner in fair condition. \$400. - Heathkit HO-10 Monitor Scope in good condition. \$ 45. - Astron RS-50M DC power supply in excellent condition. \$250. - Allied-Radio Shack AX-190 HF ham band receiver in very good condition. \$100 - Siltronics (SWAN) FS-301 SWR meter with 1000w and 20w scales in good condition. \$45 - Radio Shack Pro-2044 Scanner. \$30 - Royce 2-100 Field Strength & SWR meter. \$15 - Midland 23-135B Field Strength meter. \$10 - Lafayette Telsat SSB-75 SSB and AM transceiver. \$45 - Radio Shack HTA20 2 meter mobile transmit amp. \$55. - DSI-5500 50hz-512mhz frequency counter. \$55 MFJ-945D Mobile tuner. \$80 - MFJ-945E Mobile tuner. \$115 - Large backlit "On the Air" sign. \$25 - RCI-5054 6m SSB transceiver. \$170 - Antenna items: CSH-A4S Beam with optional A-744 driven element for 40 meters. It may need some adjustments. \$75. - Diamond X200 vertical for 2M and 70CM. \$100 - Ham IV rotator and controller. \$450.

**Contact Ken Starcher** at 330-475-2630 - Leave a message if not available. All proceeds go to Pam Tenan [5/02/22]

**FOR SALE: Heil HM-10-XD microphone.** Used once, in box. \$100 (Brand new ones are selling for \$139.)

**Contact Deron, N8XTH** [deronmb@gmail.com](mailto:deronmb@gmail.com) or text 330-715-8552 [5/02/22]

**FOR SALE: Weller 921SX1 soldering station** this is definitely used in Fair condition. Asking \$25 or offer **Tri-Magnet Roof Mount** new in the box. NMO antenna mount, PL-259 on cable. Asking \$45 or best offer **Astron RS-20 power supply** used – puts out +13.8v (not tested under load) Asking \$45 or best offer. Estate of Terry - KB8AMZ-SK All items are "cash and carry". Any and all offers will be seriously considered, as we need to get this settled asap. All items are sold "as is". All money received will be sent to Terry's sister to use for final expenses per Terry's wishes.

**Contact: Tom WB8LCD** email: [tomsly29@gmail.com](mailto:tomsly29@gmail.com) or call: 330-554-4650 [04/02/22]

**FOR SALE: Reconditioned Heath Kit SB-200 Amplifier \$500.00** with new tubes. **WANTED: Cheap 2M/70CM FM Mobile Transceiver and Single Band 10 Meter Vertical** with elevated radials attached.

**Contact: Bob, N8QE** email: [rhajdak@aol.com](mailto:rhajdak@aol.com) [5/02/22]

**FOR SALE: Chameleon CHA F Loop 3** - Loop Antenna \$280.00 **Icom 703**, 500hz filter with **Icom Back Pack** and **Separation Cable** \$225.00 **TenTec 20-40 meter** 3 watts, Apache 1800 case \$125.00 **Samlex Switching Power Supply**, Sec 1235 \$135.00 **LDG AT 200 ProII** tuner \$145.00 **TenTec 554**, 5 watt radio, 4 Modules 10,15,20,40 \$100.00

**Contact: Dave, WV8P** - [wv8p@roadrunner.com](mailto:wv8p@roadrunner.com) [05/02/22]

For Sale or Want Ad policy reminder: This is a PCARS *members only* benefit. Please don't ask to list items for a friend, relative or SK estate unless they are/were a member of PCARS. Requests come in from all over the USA (and beyond) to list items for sale or wanted items and we just cannot dedicate that much space to non-members. Listings are good for 3 months unless canceled or changed earlier. The date listed after the contact information tells you when the ad expires - example: [05/02/22] indicates the ad will run until May 2, 2022.

# Hamfest Calendar



Here are the current listings of local hamfests. Please note that all are **subject to change**. Stay current by checking the sponsoring club's web page before making your travel arrangements.

=====  
**04/09/2022 - Sixty-Sixth HAMFEST, Electronic and Computer Show - Cuyahoga Falls Amateur Radio Club, Inc. - Location:** Emidio & Sons Party Center - 48 E. Bath Road - Cuyahoga Falls, OH 44221 - **Website:** <https://sites.google.com/cfarc.org/cfarc/hamfest> - **Public Contact:** Bruce Ferry, AK8B - 2907 Lee Rd. Silver Lake, OH 44224 - Phone: 234-206-0270 - **Email:** hamfest2022@cfarc.org

=====  
**05/20-22/2022 - Dayton Hamvention® 2022 - Dayton Amateur Radio Association - Location:** Greene County Fairgrounds and Expo Center - 120 Fairgrounds Road - Xenia, OH 45385 - **Website:** <http://hamvention.org> - **Public Contact:** Henry Ruminski, W8HJR - PO Box 44 Dayton, OH 45401-0044 - Phone: 1-937-232-9272 - **Email:** henry.ruminski@wright.edu

=====  
**07/09/2022 - Intercity Amateur Radio Club - Mansfield - Location:** Richland County Fairgrounds - 750 North Home Road - Mansfield, OH 44901 - **Website:** <https://iarc.club/> - **Public Contact:** Danny Bailey, W8DLB - 70 Euclid Street Shiloh, OH 44878 - Phone: 419-541-8557 - **Email:** W8dlb113@gmail.com

=====  
**09/25/2022 - The 47th Annual Cleveland Hamfest And Computer Show - Hamfest Association of Cleveland - Location:** Cuyahoga County Fairgrounds - 164 Eastland Road - Berea, OH 44017 - **Website:** <http://www.hac.org> - **Public Contact:** Glenn Williams, AF8C - 4134 Stoney Ridge Rd. Avon, OH 44011 - Phone: 440-934-5566 - **Email:** af8c@ARRL.net

## Product Recall

A number of Antenna Kits were sent out (between March 1, 2022 and March 31, 2022) with the wrong Hex Head Wrench enclosed in the kit.



Incorrect Left Handed Hex Wrench

Correct Right Handed Hex Wrench

If you received one of these wrong Hex Head Wrenches, please contact your Sales Department for a replacement. Claims must be made by April 1, 2022.



## PCARS Thursday 2 Meter Nets

**Greg, KA8TOA**  
Net Control Coordinator



Thank you all for helping with this! Anytime you are unable to take the net, please give me as much advance warning as possible! **Check-in using the receiver located in Sugar Bush Knolls ~ 146.895 with a PL tone of 118.8. We also use EchoLink node K8BF-L**

The net control dates will be posted on the Club website. An email will be sent out after the posting. As usual if there are issues please contact me via the roadrunner email address.  
*Thanks to all of you for helping out.*

We could use another net control volunteer always looking for some help. It is good training and not that hard, please let me know.

April	
7	N8WCP
14	N8QE
21	K8YLK
28	K8CAV

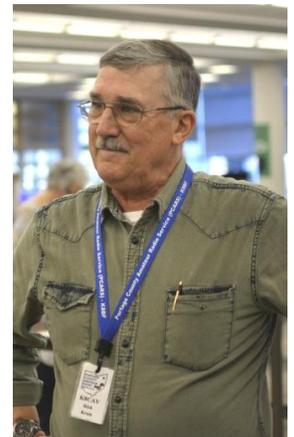
May	
5	KD8WCK
12	KE8BWA
19	KA8TOA
26	N8QE

June	
2	
9	
16	
23	
30	

The PCARS net is **BIG Fun** - tell your friends to check in via RF or EchoLink!

## Flex Net

**Rick, K8CAV**  
Flex Net Coordinator



The next PCARS **K8BF Flex Net** will take place on Wednesday April 13th at 8:00 PM. This month's net will take place on 2 meters FM Simplex on 147.495 MHz. Tech class licensees are eligible to operate as well so make some time to check in and have some fun, as well as log some Q's for the PCARS A to Z contest. Participating in the Flex Net is a good way to evaluate your antennas and station at the "local" communications level. It also builds skills in relaying stations when that is necessary.

Last month we had a great net on 6 meters SSB phone, with a total of twelve check-ins to the net. Many thanks to Brandon KE8ARB, Bob WB8OVQ, Joe W8KNO, Mike N8WCP, Tim W8GPN, Bob N8QE, Tom WB8LCD, Mike KB8TUY, Ron W8AHC, David KE8QEP and Doug WA8UWV.



# International Marconi Day - April 23<sup>rd</sup>

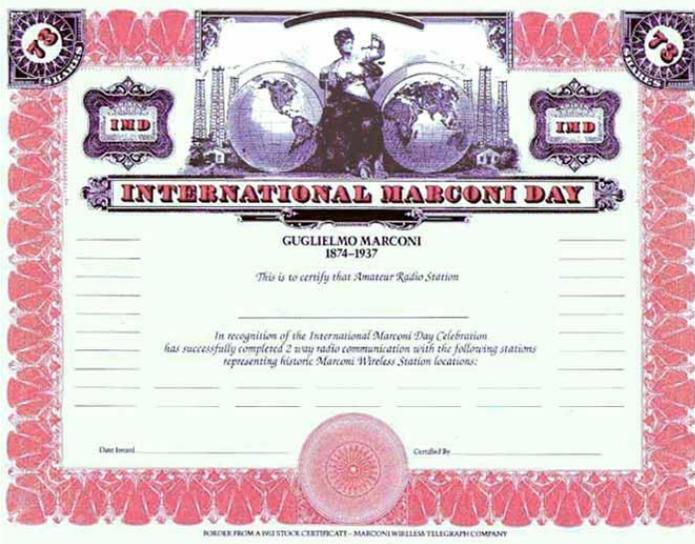
## International Marconi Day

Period of Operation on 23rd April 2022 - 0000 UTC to 2359 UTC

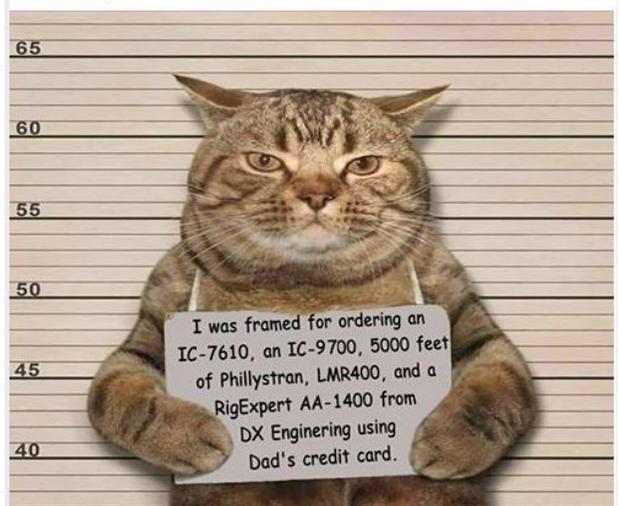
As in previous years the event will run for a full 24 hours with contacts made on HF only counting towards the award. All modes of radio communication are accepted towards the award and are actively encouraged.

Please note that VHF, UHF, internet modes such as Echolink, DMR and other Digital Voice modes will NOT count towards the award for IMD.

See all the details on the **Cornish Radio Amateur Club** website: <http://gx4crc.com/>



Bad ol' kitty!



THIS IS OUR NEW STRESS TEST. WE MAKE YOU USE FT8.

# Famous Radio Hams & What They Did for a Living



**Nigel, G4KIU**

With two million radio hams worldwide, it is only to be expected that there will be some well-known names who hold an amateur radio license.

## Famous Radio Hams – About This List

While this list has been carefully researched and checked, it is possible there are some errors and omissions. Some names which appear elsewhere have been ignored due to inaccuracy and uncertainty. Many on this list of famous radio hams have become silent keys (died). In some countries, especially the United States, call signs which have lapsed or belonged to hams who are silent keys, are re-issued.

Nigel, G4KIU was first licensed in 1978. He has travelled the world on a number of DXpeditions, operating from countries including Comoros (D6), Rodrigues (3B9), American Samoa (KH8) plus the US and several European countries. He lived in the South Cook Islands for a while and operated as E51SC.

Famous Radio Hams and What They Did for a Living. I have divided the list of well-known radio ham celebrities into several sections rather than in a single long list. Famous radio ham names include Kings, Queen's and Princes, a few Heads of State, authors, musicians, astronauts, and cosmonauts, plus those who took to the stage, screen, radio, and television. The list is not complete, as it expected that there are a number of well-known people who prefer to remain anonymous on the ham bands.

### 4 Famous Radio Hams – Authors

K2ORS	Jean Shepard	"In God We Trust: All Others Pay Cash", "A Christmas Story"
KA6UXR	Dr. Alex Comfort	"The Joy of Sex"
KG7JF	Jeff Duntemann	Author and publisher of Coriolis Group
TI2DR	David Ruben MD	"Everything you wanted to know..."

### 15 Famous Radio Hams – Astronauts & Cosmonauts

7L2NJY	Dr. Mamoru Mohri	Japanese	ON1AFD	Count Dirk Frimouth	Belgian
DB1KM	Reinhard Furrer	German	RV3DW	Sergei Avyeyev	Russian
DP3MIR	Dr. Ulf Merbold	German	UV3AM	Musa Manarov	Russian
GB1MIR	Helen Sharman	British	UA1LO	Yuri Gagarin	Russian
KE5CGR	Christer Fuglesang	Swedish	W0ORE	Tony England	American
KG6FZX	Dennis Tito	First space tourist	W5LFL	Owen Garriot	American
N5QWL	Jay Apt	American	WA4SIR	Ron Parise	American
N5YYV	Kathy Sullivan	American			

### 8 Famous Radio Hams – Musicians and Singers

K0HWY	Tex Beneke	Band leader
KA6HVA	Burl Ives	Singer
KD4WUJ	Patty Loveless	Country singer
W4CGP (Ex-WA4CZD)	Chet Atkins	Singer-songwriter, guitarist
WB4KCG	Ronnie Milsap	Singer
WB6ACU	Joe Walsh	The Eagles
WD4LZC	Larnelle Harris	Country singer
WN3OQW	Jim Croce	Singer-songwriter

### 8 Famous Radio Hams – Royalty & Heads of State

9K2CS	Yousuf Al-Sabah	Prince, Kuwait	HS1LY	Prince Titiphan	Price, Thailand
A41AA	Qaboos Bin Said Al-Said	Sultan of Oman	HZ1TA	Talal bin Abdulaziz	Prince, Saudi Arabia
EA0JC	Juan Carlos	King of Spain	JY1	Hussein	King, Jordan
HS1A	Bhumiphol Adulayadej	King of Thailand	JY2	Noor	Queen, Jordan

### 6 Famous Radio Hams – Politicians

K4TPJ	David Funderburk	US Congressman & Ambassador
K7UGA/K3UIG	Barry Goldwater	Senator (US)
VE3RX	Arthur Meen	Canadian Cabinet Minister
VE3VGW	Gilles Morin	Canadian Deputy Speaker
VK5NIV	Ivan Venning	Australian MP
W3ACE	Armin Meyer	US Ambassador to Japan

### 5 Famous Radio Hams – Presidents & Prime Ministers

I0FCG	Francesco Cossiga	President, Italy
LU1SM	Carlos Saul Menem	President of Argentina
VU2RG	Rajiv Gandhi	Prime Minister, India
ZK1AN	Sir Thomas Davis	Premier, Cook Islands
YN1AS	General Anastasio Somoza	President, Nicaragua

### 10 Famous Radio Hams – Stage, Screen TV & Radio

G2DQU	Lord Brian Rix	Actor	KC4OCA	Gordon Barnes	Weatherman, KCBS
G3YLA	Jim Bacon	Weatherman, BBC	KD6WUS	Hugh Downs	TV game show host
K4LIB	Arthur Godfrey	Radio & TV broadcaster	KE6PZH /FO5GJ	Marlon Brando	Actor
K6DUE	Roy Neal	Television reporter, NBC	KI6M	Stu Gilliam	Comedian
KB2GSD	Walter Cronkite	New anchor, CBS	N6CKF	Lloyd Bochner	Actor

Thanks to K3LR for spotting this on the internet

## Hamvention® Youth Speakers (from PCARS)



**Carole, WB2MGP**  
Hamvention® Youth Forum

Carole Perry, WB2MGP has invited two of the fabulous Wagner family young hams to speak at her **Hamvention® Youth Forum** this May.



Carole reports that both PCARS members Benedict, AD8FQ, 13 years old, and Agnes, KE8LWP, 12 years old will speak on:

***"Unexpected Opportunities: Our Ham Radio Adventures During Lockdown."***

All PCARS members are invited to attend the Youth Forum to show support for these talented young hams.

**From Nick, AC8QG, PCARS President:** Carole WB2MGP asked me to thank all of PCARS for “supporting our fabulous young hams at the Hamvention Youth Forum.” As the father of young hams, I am also very grateful for the PCARS members generosity in support of this event and your ongoing support of youth in Amateur Radio. PCARS raised a grand total of \$325.00! Thank you all!



## **CQ to Limit Contest Participation by Stations in Russia, Belarus and Donbas Region of Ukraine**

### **STATEMENT OF CQ COMMUNICATIONS, INC., REGARDING CQ CONTESTS AND THE RUSSIAN INVASION OF UKRAINE**

(Northport, NY 17 March, 2022) – CQ Communications, Inc., publishers of *CQ Amateur Radio* magazine and sponsor of the CQ World Wide DX and WPX Contests, announced today that in light of the invasion of Ukraine by Russia and Belarus, it will not accept competitive entries in any of its sponsored contests by amateur radio stations in Russia, Belarus or the separatist Donbas region of Ukraine (unofficial D1 prefix). Logs submitted by these stations will be accepted only as checklogs. In addition, contacts with these stations by other participants will have zero point value and will not count as multipliers.

This is in line with a similar action taken by the Radio Society of Great Britain, following the lead of other international sports federations around the world.

"We regret the need to take this action," said *CQ* Publisher Richard Ross, K2MGA, "and recognize that the vast majority of our fellow amateurs who are affected by it are innocent bystanders who had no role in their government's decision to invade another sovereign country. However, in light of the great suffering being inflicted without cause on the people of Ukraine by Russia's leaders, we cannot in good conscience stand by and do nothing."

The CQ policy will take effect with the 2022 CQ WPX SSB Contest on March 26 and 27. Future events will be considered on a case-by-case basis, depending on the situation at that time.

<http://cqnewsroom.blogspot.com/2022/03/cq-to-limit-contest-participation-by.html?m=1>

### **BBC Brings Back Shortwave for Ukraine**

The British Broadcasting Corporation (BBC) is reviving its European shortwave service in order to provide news and information to listeners in Ukraine who may be cut off from internet service but have access to portable shortwave receivers.

According to the New York Times, the BBC decided to reinstate its shortwave broadcasts to Europe following Russia's attack on Kyiv's main radio and TV transmission tower. "In a conflict where disinformation and propaganda is rife," BBC Director-General Tim Davie said in a statement, "there is a clear need for factual and independent news people can trust." The BBC had ended its European shortwave service in 2008.



The Huffington Post reports that the BBC will broadcast World Service News in English for four hours each day on 5875 and 15735 kHz, frequencies that can be received easily in both Ukraine and Russia. The BBC reports that Russia has limited internet access to several international broadcasters, including the BBC, Radio Liberty and Deutsche Welle.

## DX Summit Blocking Cluster Spots From Warring European Nations/Regions

DX Summit has announced that it is blocking posts from all countries and regions involved in the current war in Ukraine, partially at the request of the Ukrainian government and partially of its own accord. The following statement was released today:

A message from the operators of the DX Summit  
<http://www.dxsummit.fi/>

A state of emergency was declared in Ukraine just prior to the Russian military invasion. Among other things, the February 24 decree from President Volodymyr Zelensky will remain in effect for at least 30 days and may be extended. The state of emergency includes “a ban of amateur radio transmissions”.



As per Ukrainian presidential office request, we will be removing the Ukrainian callsigns from the DX Summit.

DX Summit wants to avoid being an advertising medium for war and war related messages of any kind. As a result, we see it reasonable to block out all cluster posted messages related to this unfortunate event.

In addition, as of this moment, we are also blocking callsigns and messages posted by hams from the invading countries and regions such as Russia, Belarus and Donetsk (D1).

## PCARS Custom Coffee Cups - Limited Edition - Almost Gone

PCARS has obtained a limited number of special, custom made coffee cups that are available only to members.



**Supply is limited.** If you are a current (PAID) member of PCARS you get one coffee cup for **FREE !!** The only catch is you have to claim it from the **Treasurer - Greg, KA8TOA.** Greg has a list of current members and



will check off your name when you get your **FREE** PCARS coffee cup.



There are a **very limited number of extra coffee cups** and they are for sale at \$5.00 each.

**Contact Greg for all of the details: [Treasurer@portcars.org](mailto:Treasurer@portcars.org)**





**Paul, NISFE**  
From the ARRL

## Friedrichshafen HAM RADIO 2022 Will Welcome Worldwide Visitors

With the recent relaxation of COVID-19 regulations, the Deutscher Amateur Radio Club (DARC) and Messe Friedrichshafen, partners of the [HAM RADIO 2022](#) exhibition in Germany, are optimistically looking forward toward holding the 45th HAM RADIO from June 24 - 26 in Friedrichshafen, subject to the final official approval by the local authorities.

Appropriate hygienic and distancing measures will be in place for the safety of all visitors. These will have implications on the design of the stands, the opening ceremony, the presentation rooms, and the flea market area.

One of the largest amateur radio conventions in the world, alongside Dayton Hamvention® in the US and the Japan Amateur Radio League Ham Fair, HAM RADIO attracts exhibitors and visitors from more than 52 countries to Germany. [ARRL The National Association for Amateur Radio®](#) will be among the participating [International Amateur Radio Union](#) (IARU) member-societies exhibiting at the convention. HAM RADIO organizers say they are "looking forward to seeing you in Friedrichshafen!"



## WRTC 2022 Special Event Station Award Begins New Cycle

World Radiosport Team Championship 2022 ([WRTC 2022](#)) special event stations have been on the air to call attention to the international competition, now set to take place in July 2023. Stations that already worked toward the [WRTC 2022 Award](#) in January and February may be contacted again. Stations need 50 points for the award. The point structure is 5 for CW contacts, 10 for SSB contacts, 12 for RTTY contacts, and 17 for FT8 (or mixed). Points accumulate each month. Your [March score](#) will be added to your February and January scores. Register and log in to <https://hamaward.cloud> and select "WRTC2022 Award" to access your score page and logbook. The WRTC 2022 Award organizers are asking participants not to send or email QSL cards. Further information will show up on the hunters' website.



Special call signs are active during this event. More than 100 Italian radio amateurs will activate special WRTC call signs, one for each Italian call district, concluding on July 10, 2022. A [first-time award](#) promoting WRTC 2022 will be available. Look for these call signs to be active during some contests, concluding with the 2022 [IARU HF World Championship](#). Each participant's contact totals and award-hunter scores will be displayed on a [real-time leaderboard](#). Participants can download the award in digital format. -- *Thanks to* The ARRL Contest Update

## A Contesting Word to the Wise

When submitting contest logs, many contest sponsors will provide an email confirmation of your entry. It's always advisable to check your confirmation email or the contest's Logs Received page to ensure that your entry has been submitted and that your entry category, club name, and location are correct. ARRL, CQ, and other contest sponsors allow you to resubmit your log with any corrections before the log submission deadline. The most recent uploaded log will be used for scoring purposes. After the deadline, some contest sponsors will release raw scores that reflect the results before any log checking has been completed. If, after the deadline, you notice an error in your log submission, contact the contest sponsor to correct it before the results are tabulated and made public. -- [The ARRL Contest Update](#)

## **CQ to Limit Contest Participation by Stations in Russia, Belarus, and Donbas.**

In a March 17 news release, CQ Communications, Inc. announced, "It will not accept competitive entries in any of its sponsored contests by amateur radio stations in Russia, Belarus, or the separatist Donbas region of Ukraine (unofficial D1 prefix). Logs submitted by these stations will be accepted only as check logs. In addition, contacts with these stations by other participants will have zero point value and will not count as multipliers." The policy will take effect with the CQ WPX SSB Contest on March 26 and 27, 2022, and future events will be considered on a case-by-case basis, depending on the situation at that time.

## **Military Exercise Will Use 50 MHz Band.**

Belgium's communications regulator BIPT has said 50.200 MHz and 51.075 MHz will be used from May 30 to June 18 during a military exercise. A translation of the post by Belgium's national amateur radio society UBA said, "BIPT informs us that in the period from May 30 to June 18, 2022, a military exercise will be held in Elsenborn in which two frequencies in the 6-meter band will be used -- 50.200 MHz and 51.075 MHz. The amateur radio service has a secondary status in this band; the military services a primary status." Radio amateurs are called upon to pay particular attention to this during this period, to avoid the use of these frequencies if possible, and certainly to listen carefully to whether the frequency is in use if they still wish to use the frequencies concerned.

## **Rick Lindquist, WW1ME, Retires as ARRL News Editor**

Rick Lindquist, WW1ME, has retired as ARRL News Editor. The position includes responsibilities like producing news content for the ARRL website, the weekly ARRL Letter, and the "Happenings" column in *QST*, as well as voicing the weekly ARRL Audio News.

Lindquist began his long association with ARRL in 1995. While on staff, he served as Product Review Editor and then Senior News Editor. He retired from ARRL in 2007 and then returned in 2013 to fulfill the News Editor duties on a freelance basis while most recently working remotely from home in Maine.

"I've logged a total of some 26 years as an ARRL staffer at HQ and as a contractor," Lindquist said. "As I approach 77, I've determined that sitting in front of a screen was not quite the retirement dream.



## **Volunteer Monitor Program Cautions against Operating Beyond License Privileges**

Many of the Advisory Notices sent out each month by the ARRL [Volunteer Monitor Program](#) go to stations heard operating outside the operator's license privileges. While some may be doing so deliberately, it seems clear that many of these reports reflect a lack of clarity regarding the Part 97 -- Amateur Radio Service rules.

Typical cases often involve operators holding Technician- or General-class amateur licenses being heard on a frequency or band not permitted by their license privileges. Most recent incidents have frequently entailed FT8 digital mode operation by Technician licensees on 20 and 40 meters. Technician licensees do not have any operating privileges on 20 meters, let alone digital privileges, and FT8 is a digital protocol.

Technicians (and Novices) may operate CW between 21.025 and 21.200 MHz on 15 meters, from 7.025 and 7.125 MHz on 40 meters, and from 3.525 to 3.600 MHz on 80 meters, but they do not have *any* digital (data) mode privileges on these bands.

ARRL Volunteer Monitor Program Administrator Riley Hollingsworth, K4ZDH, said licensees who need a refresher course regarding their operating privileges may refer to Section 97.301 of the rules. ARRL also has a convenient chart on its [website](#) that details privileges available to all license classes, from Novice to Amateur Extra.

As monthly Volunteer Monitor reports indicate, some General-class operators have lost their way on some bands too, and Advisory Notices have gone out to those operating outside of the General-class phone subbands. For example, on 20 meters, Generals may operate phone from 14.225 to 14.350 MHz, but occasionally, General-class operators are heard outside of that subband. On 40 meters, the phone and image subband open to General licensees is 7.175 to 7.300 MHz. Of course, Technician- and General-class licensees may operate CW on any subband on which they have operating privileges, although operation within the CW subbands is preferred by band plan.

On 10 meters, Technicians have RTTY and data privileges -- including FT8 -- from 28.000 to 28.300 MHz, and SSB phone privileges from 28.300 to 28.500 MHz, and may operate on CW over the entire 28.0000 - 28.500 MHz segment. Technicians may enjoy all operating privileges at 50 MHz and above.

The ARRL Volunteer Monitor program is a formal agreement between the FCC and ARRL. Volunteers trained and vetted by ARRL monitor the airwaves and report evidence that may be used to correct errant operation or to recognize exemplary on-air operation.

## Tower Climbing Season is Coming

With the warmer spring weather approaching, many operators have begun to get started on antenna and tower projects. Ward, N0AX, shared some tower climbing safety tips that he and other fellow tower climbers were discussing. Specifically, what to do if your muscles start to cramp while on the tower.

An unpleasant surprise when climbing or working on a tower is the onset of cramps in legs, arms, or hands. Even the most experienced climbers can be rattled by cramps, which come on suddenly and release slowly. When muscles, in particular those of your fingers, hands, or arms, refuse to respond normally, it's time to immediately stop whatever you were doing and recover.

Dealing with cramps begins before you ever start up the tower. Eat a meal with the right minerals and drink plenty of Gatorade or another fortified sports drink of your choosing, particularly if you will be working in high temperatures. During extended periods on the tower, continue to drink a quart of fluids every hour or so. One sports drink per three or four bottles of water works well. Everyone, young and old, must make the time to do this!

Climbing and working aloft works our hands and arms much harder than usual, with a very tight grip that restricts the

blood from getting oxygen to your muscles. Your arms are working at or above chest level, making blood flow even more difficult. Remember to stop every so often and drop and shake out your arms to restore full blood flow and flush out and re-oxygenate your muscles. Climb and work slowly and deliberately with frequent rests while the climbing gear supports your weight.

If you find yourself cramping, don't panic. Your climbing gear will keep you secure. Cramps are just one reason to be attached to the tower 100% of the time, whether climbing or working. Your body is telling you that it has run

out of something important and needs attention. Have your ground crew send up some fluids immediately. Start with sports drinks and let your body absorb them. Allow adequate time for your body to relax. Do some flexing. If the cramp is in your arms, alternate between letting your arm hang loosely at your side and then placing your hand palm-up on top of your head to gently stretch the muscles.

Consider your options carefully - should you continue working or retreat to the ground to rest? After a cramp, you may not be at full-strength for some time. Another cramp when you're doing heavy work or not completely secured is an unnecessary risk. Whatever you were doing can wait until you are fully recovered from the cramp. The safety of you and your ground crew are of the utmost importance. - *From The ARRL Contest Update for March 16, 2022 - Thanks to Ward Silver, N0AX and friends.*



## In Brief...

### The Bavarian Contest Club has temporarily ceased its plaque sponsorship for the upcoming CQ Worldwide WPX SSB and CW Contests.

This includes four plaques for the Rookie and Youth category overlays. The Bavarian Contest Club is also sponsor of four other plaques in CQWW DX Contest and CQWW RTTY DX Contest. This sponsorship will be evaluated at a later time. A statement (March 21, 2022) has been (<http://www.bavarian-contest-club.de/history/2022/Erklaerung-zur-juengsten-Entscheidung-der-CQ-zur-Einschraenkung-von-Teilnehmern;art637,2529>) in both German and English.

### The European Conference of Postal and Telecommunications Administrations (CEPT), has suspended the Russian Federation and Belarus from CEPT membership, in a March 17 announcement.

It was requested by CEPT members. The suspension, which took effect March 18, is indefinite. In the CEPT Assembly there were 34 supportive responses to the proposal, and one abstention. Future readmission will need a two-thirds majority vote.



## 3Y0J - Bouvet Island 2023

*The following was posted on the 3Y0J Bouvet Island DXpedition Facebook page*



The 3Y0J team is looking for one more operator. Specifically we're looking for a NA SSB operator.

If you always have wanted to go on a most wanted DXpedition like Bouvet then send us an email. We would love to have you on the team, and can guarantee an exciting challenge! It will be all hard work. You will have to sail for 10 days, get seasick, then carry 6.3 metric ton into a zodiac, do a wet zodiac landing, fight the elephant seals, climb a rock, haul all equipment up, install the camp in harsh and cold environment, operate A LOT we have 12 radios one for each, sleep in a cold place, no beer or steak being served but you eat MRE, toilet is w/o insulation - but great sea view, be prepared for an emergency evacuation and sail back for another 8 days. Team agreement says you can talk your own native language in the pileup and say hello to your friends in Romania, Germany, Colombia or whatever. There is no shower for 3 weeks. The fee for this luxury vacation is only \$20,000. But you will have the biggest pileup ever. And if there is a shortfall of donations you have to pay more.

#### Requirements:

- (1) can take 7 weeks vacation in Jan/Feb 2023
- (2) SSB contester or DXpedition experience
- (3) from NA

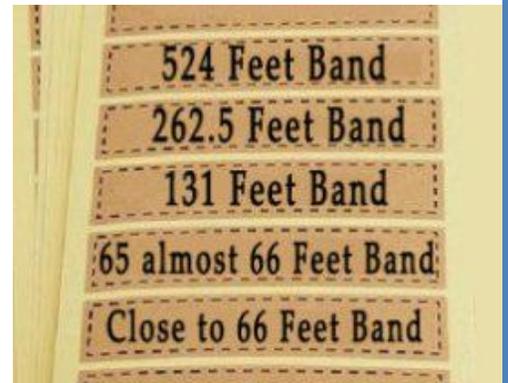


## Fed Says to Radio Manufactures “Go American”

**WASHINGTON, D.C.** – In a move that will have far reaching impact, the United States is mandating that radio manufacturers selling equipment within the country change all measurements to United States standards. The Office of Technical Measurements – located in an obscure, non-descript building adjacent to the National Sheep Shearer’s monument in Washington, D.C. – has responsibility for maintaining consistency among weights and measures.

“It came to our attention that radio frequency bandwidth measurements were being conducted in metric units,” says OTM Director Erica El-Steuben. “*We’re not sure how this issue was overlooked for so long, but we’re taking the appropriate steps to correct the problem.*”

Stickers, like those seen here, will be available for placement on radios.



In an executive order issued by the OTM, the current amateur radio frequency bands will be called by the following identifiers effective on April 1, 2022:

- 160 meter band = 524 feet band
- 80 meter band = 262.5 feet band
- 40 meter band = 131 feet band
- 20 meter band = 65 almost 66 feet band
- 10 meter band = close to 33 feet band

“*We believe that this effort to clean up the identifying nomenclature will be widely accepted by US amateurs,*” continues El-Steuben. “*After all, everyone knows what a dismal failure the metric system is in the United States.*”

In a related item, radio manufacturers are expected to soon issue “add-on” decal packages to assist ham operators with re-naming the bands on their currently owned rigs.

“*We are committed to 100% compliance with all U.S. rules and regulations,*” says a manufacturer’s representative who spoke on condition of anonymity. “*Even if they don’t make any sense.*”



**PCARS**  
www.portcars.org



## Digital Special Interest Group

**Rick, K8CAV**  
Digital SIG Coordinator



The next Digital Special Interest Group meeting will take place on Tuesday April 5th at 7:00 PM. This will be a **virtual-only meeting on Zoom**, please see the Zoom link below. I will be returning our meetings to in-person starting in May. This month's meeting will be an open forum meeting where we can discuss anything related to digital communications. As always, we'll make time to answer any questions, or address any problems you may be having with digital communications.

Meeting ID: **883 5509 4567** Passcode: **PCARS2022**

One tap mobile

Meeting ID: **883 5509 4567** Passcode: **774341703**

The May meeting will be a presentation on fldigi. I'll briefly cover installation and configuration of fldigi, but will go into more detail concerning operation and features of fldigi. The June meeting will be a presentation on using WSJT-X, specifically FT4 and FT8 in the Field Day contest mode, linked to the N3FJP logging app as it will be used at the Flex Station for PCARS Field Day.

## Portable Ops Special Interest Group

**John, WG8X**  
Portable Ops SIG Coordinator



HI everyone, the Portable operations SIG will be a hybrid meeting again this month.

We'll talk about all manner of subjects to do with portable operations. This month our topic will be discussing all manner of portable gear, and operating.

Stop by, you never know what we'll be discussing. As always, we'll be entertaining your Show & Tell, and questions.

We'll be meeting on April 12th, at 7PM in person at the PCARS club site or via Zoom.

Here's the link to join the Zoom Meeting:

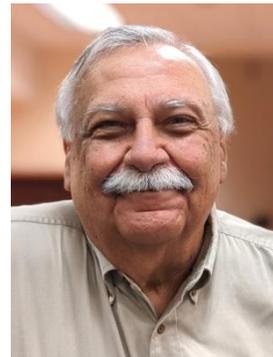
<https://us02web.zoom.us/j/89732195744?pwd=cldtZmxMcmFqQndhQWtJN0s2NUNnUT09>

Meeting ID: **897 3219 5744**

Passcode: **PCARS2022**



## DX and Contest Special Interest Group



**Chuck, W8PT**  
DX & Contest SIG Coordinator

On Tuesday, March 22, we held our monthly DX/Contesting Special Interest Group meeting. It was a 100% ZOOM meeting but we are hoping that from here on, we will be meeting at the club site for our meetings. (ZOOM will be available.)

I had discussed, in a previous meeting, that I would be doing a presentation called Contesting 101. But in thinking about the various aspects of contesting and that in a one hour setting, we could not really discuss any one topic in depth, I tweaked the idea. I thought that it would be better if we looked at the various aspects of contesting, we could choose one to discuss fully. I have asked those attending to ideas on what they would like to discuss regarding contesting as well as DXing. So we will be looking at topics such as propagation, QSLing, operating plans; and ergonomics for future meetings, just to mention a few.

We kicked off the first discussion by looking at various questions that I raised on how one gets ready for a contest. Subtopics included: looking at previous year's performance by studying past logs; the use of DX clusters; Voice keyers; what one does about food and sleep; do we care about contact rates.

We even ventured into the topic of QSLing and the use of logging programs. We had 10 attendees and everyone participated in the various discussion topics.

I encourage you to take part in the next DX/Contesting SIG and make your thoughts known to the group.



## Dayton Hamvention®

70<sup>th</sup> Anniversary Reunion



Greene County Fairgrounds & Expo Center

**hamvention.org**



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- Exhibits & Flea Market
- Forums & Activities
- Networking & More!

## Charlie the Tuner's HF High-Lites

**Chuck, W8PT**  
a.k.a. "Charlie the Tuner"



### Greetings DXers

### Charlie the Tuner's DX High-Lites – April 2022

April is here and the year is already approaching 1/3 gone. I'm not sure about you but it seems that time is moving very fast these days. And I've probably said that last year as well. With the promise of both good WX coming and good DX coming, we should be quite happy with the situation. I will be finishing my antenna project this summer (at least that's the plan). And I will be then able to take advantage of the openings I've been seeing on 10 and 15 meters. Those two bands have been hopping for all modes. I can't wait to get on 15 meters since that is my favorite band. I hope that you, who have the capability on those two bands, have taken advantage of the openings. Well, with that in mind let's see what coming up in the next few months.

Thanks to the Northern Ohio Amateur Radio Society, Northern Ohio DX Association, Ohio/Penn PacketCluster Network, the AB5K's AR Cluster Networks, NJ1Q & W1AW, W2VU, NG3K & ADXO, W3UR & The Daily DX, W4VQ, K5GS, W5JON, W7GJ, K8YSE, W8GEX & 60m DX News, DL1SBF, DL7UXG & The DX News Letter, DXNews.com, DX-World.Net, F6AJA & Les Nouvelles DX, I1JQJ/IK1ADH & 425 DX News, LA4LN, LA7GIA, Sixitalia Weekly, UX5UO, VA3RJ & ICPO and XE1KK for the following DX information.

And as always, this report "could" contain "Pirate/SLIM" operation or more likely a "BUSTED CALLSIGN". As always, you never know, so..... - "Work First, Worry Later".

**PLEASE NOTE:** The fact that donation requests, from various DXpeditions, are at times included in this column does not mean that PCARS or this HAM approves or disapproves of donating to the DXpeditions listed. I am only providing information for you to make up your own minds as to whether or not to donate.

### April...

**CARIBBEAN TOUR.** Michael, DF8AN, will be active over the next couple of months from the Caribbean. Activity from all islands will be on various HF bands, including 6 meters, using mostly CW and the Digital modes. His schedule is as follows: \* April 13-19th -- Martinique (NA-107); Callsign FM/DF8AN; during the and May 1-2nd YU DX Contest (April 16-17th) he will sign TO8N. \* April 19-24th -- Dominica; pending callsign is J79MN \* April 24th- May 1st -- pending J6 callsign QSL via DF8AN, direct only or via the DARC QSL Bureau.

**8Q, MALDIVES.** Braco, E77DX/OE1EMS, will be active as 8Q7DX from Baa Atoll (AS-013) between April 13-27th. Activity will be holiday style on 80-10 meters (probably not 160m) using an Icom 705 with a Juma 1000 1KW amp into a vertical and VDAs on the beach. QSL via E73Y.

**9H6, MALTA (Special Event).** John, 9H1CJ (ex-5Z4JC), active with the special callsign 9H6CAP to commemorate the 80th anniversary of the destruction of the Capuchin Monastery and the Church (on Easter Saturday/ Sunday bomb attack, April 4-5th, 1942), in Floriana (WW Loc. JM75GV), Malta, between Apr 1 and Jun 30, QSL via 9H1CJ direct only.

**9N, NEPAL.** Matjaz, S57MK, will be active as 9N7MK from Nepal during the trekking sessions on Mt. Everest (3 passes) between Apr 2-23rd. Activity will be on various HF bands. QSL details were not provided. Listen for QSL route.

**DA22, GERMANY (Special Event).** Look for special event station DA22WARD to be active until April 30th, to celebrate "World Amateur Radio Day". QSL via the DARC Bureau or direct to DL2VFR.

**DF90/DK90/DL90/DM90/DR90/DQ90/DP90 & HB90, GERMANY AND SWITZERLAND (Special Event).** Gert, DM7MA, and a crew of operators will activate the following special event stations until June 30th: DF90TJU, DK90TJU, DL90TJU, DM90TJU, DR90TJU, DQ90TJU, DP90TJU and HB90JU. Activity is to celebrate the 90th anniversary of the maiden flight of the Junkers JU52/3m (transport aircraft).

**FK, NEW CALEDONIA (Update).** Jean-Louis, F5NHJ, is planning to travel to New Caledonia (OC-032) between April

1st and June 7th. He will signing FK/F5NHJ. However, he is currently waiting to see what is happening in Ukraine because his flight will fly over Russia. Activity will be on various HF bands using CW, SSB and the Digital modes, with an IC-7100 into an inverted L and PAC-12 dipole. QSL will only be on LoTW, ClubLog and eQSL. NO paper QSLs.

**FW, WALLIS AND FUTUNA ISLANDS (Update).** Jean, F4CIX, continues to be active as FW1JG from Wallis Island. Reports indicate that he will be here for the next 2 or more years. Activity is mainly on 40/20/15/10 meters using SSB and FT8. Watch for him between 0630-0915z on 20 meters using FT8 and SSB. He uses a IC-7300 into a wire multi-dipole and with 100 watts. QSL via direct or LoTW.

**GB5, ENGLAND (Special Event).** Kevin, G8VJU, active with the special callsign as GB5MW from Chatham Kent celebrating the 100<sup>th</sup> anniversary of the Medway Amateur Receiving & Transmitting Society (MARTS) - April 3-30.

**GB8, NORTHERN IRELAND (Special Callsign).** Thomas, MI0MOD, will has activated the special callsign GB8UKR during the Ukraine war. The callsign is being used for: Northern Ireland Stands With Ukraine. To receive as special certificate or QSL card, see details on QRZ.com.

**HL, SOUTH KOREA.** Al, WH2Z, active as HL2ZIO from Pyeongtaek, South Korea. Length of his stay is unknown. Activity will be on the Digital modes, SSB and sometimes CW. His rigs are a FT1000D and TS850S, with antennas Cushcraft D-3 (20/15/10m) Rotatable Dipole and a EFHW 40M (end-fed half-wave). QSL via WH2Z direct.

**JT, MONGOLIA.** Mats, RM2D (SM6LRR), active as JT4RR from South Gobi Region, Mongolia, until April 5. He also mentions that sometime in Mar-Apr and Jul-Aug planning a few days of activity as JT4RR/P from the South Gobi Desert.

**OE0, AUSTRIA (Special Event).** Jo, OE6VIE, special event callsign OE0MORSE from Styria, Austria, between April 1-30. Activity is to commemorate the 150th anniversary of the death of Samuel F.B. Morse. Ops will be CW only. QSL via ClubLog's OQRS, eQSL or LoTW. A free special commemorative award is available (see QRZ.com for details).

**PF01, THE NETHERLANDS (Special Event Reminder).** Frans, PC2F, will be active as PF01MAX during each racing weekend until November 20th, during the Formula 1 2022 season. A detailed schedules is available on QRZ.com. QSL via PC2F, direct, by the Bureau, eQSL or LoTW.

**VK90, AUSTRALIA (Special Event Reminder).** Look for special event station VK90ABC to be active throughout 2022 to celebrate the 90th anniversary of Australia's national broadcaster, the Australian Broadcasting Corporation (ABC). During 2022, amateurs from across Australia will be using this special event callsign to make contacts with other amateur radio operators across Australia and around the world. PLEASE NOTE their QSL policy. NO DIRECT QSL. NO BUREAU QSL. QSL only via LoTW and eQSL (Logs uploaded monthly).

**XT2, BURKINA FASO.** Max, DK1MAX, will once again be active as XT2MAX from Ouagadougou, Burkina Faso, between April 7-20th. Activity is usually holiday style on all bands using mostly CW and FT8, with an IC-7300 into verticals and dipoles. QSL via EA5GL, LoTW, eQSL, (no Bureau or SWL reports) and ClubLog. NO PAPER QSLs. Look for more details to be forthcoming.

## May...

**4X74/4Z74, ISRAEL (Special Event).** Israel celebrates 74 years of Independence this year. Amateur radio operators from Israel will be using the special prefixes 4X74 and 4Z74. (examples: 4X74HU (Op 4X6HU), 4X74OM (Op 4X1OM) and 4Z74OC (Op 4Z5OC). The activity will start on May 5th, 0000 UTC until Saturday, May 11th, 2359 UTC. QSL cards will be uploaded LoTW or private printing by the operator. Some of the operators will/may use the special callsigns during the Holyland Contest the weekend of Friday, April 15th, 2100 UTC - Saturday, April 16th, 2100 UTC.

**C5, THE GAMBIA.** Operators Gérard/F5NVF, Abdel/M0NPT (7X2TT) and Luc/F5RAV will once again be active as C5C from Kololi (WW Loc. IK13PK), The Gambia, between May 22nd and June 7th. The team also hopes to be active again from Bijol Island (AF-060) as C5B. Look for more details to be forthcoming.

**FM/TO3, MARTINIQUE.** Marius, ON4RU/OQ3R, will be active as FM/OQ3R from Martinique (NA-107) between May 21st and June 4th. Activity will be holiday style on 160-10 meters using CW only. He is also planning to be in the CQWW WPX CW Contest (May 28-29th) signing as TO3F. QSL via ON4RU direct.

**NH7, HAWAII.** Ops Jim/N6TJ, John/KH6SH, Oliver/W6NV, Robert/N6TV and Larry/N6TR active as NH7T from the KH6YY station in Haleiwa, HI, for the CQ WPX CW DX Contest (May 28-29) as a Multi-Multi entry. QSL via KH6SH.

**SX335, GREECE (Special Event).** Members of Radio Amateur Association of Western Peloponnese (ERDYP) and friends will activate special event station SX335T between May 1-31. Activity is taking place with the Hellenic Mira 335 Squadrons during the NATO Tiger Meet 2022 at ARAXOS 116 Military Airport, Greece. QSL via LoTW and eQSL only.

**TM50, FRANCE (Special Event).** Members of the Val d'Issole Radio Club Dpt. 83 (F8KGH) active as TM50SNSM to commemorate the 55th anniversary of the SNSM (the French National Society of Sea Rescuers) until July 16th. Activity will be on 80-6 meters using CW, SSB and the Digital modes. QSL via F4GPB, by the Bureau, direct or eQSL.

**ZF, CAYMAN ISLANDS.** William, KO7SS, will once again be active as ZF2SS from Cayman Brac Island (NA-016) during the following contests in 2022: CQWW WPX CW Contest (May 28-29th), CQWW DX CW Contest (November 26-27th) and the ARRL 160m Contest (December 3-4th). QSL via LoTW only.

## IOTA News...

**EU-015/ Erwin, DK5EW,** will be active as SV8/DK5EW from **Santorini EU-067. Island** (EU-067, WW Loc. KM26qi) between May 23-29th, and from **Crete** (EU-015, WW Loc. KM15wl) signing as SV9/DK5EW between May 31st and June 11th. Activity will be mainly a 144 MHz DXpedition on EME and meteorscatter. QSL via DK5EW, direct, by the Bureau, eQSL, ClubLog or LoTW.

**EU-030.** Belgian OSA Team (8 operators), from the Antwerp section will be active as 5P5BI from **Bornholm Island, Denmark**, between April 24th and May 1st. Activity will be on 160-6 meters using CW, SSB and the Digital modes. QSL via ON6EF, direct or by the Bureau.

**EU-125.** Operators Wies/SPIEG, Hans/DK8RE and Hans/DL8UUF will be active as 5P1EG from **Romo Island (OZFF-005)** between May 7-14th. Activity will be on various HF bands using CW, SSB and the Digital modes, with an IC-7300 + Expert PA into different GP antennas. QSL via SPIEG.

**NA-079.** Gene, N0MHJ, will be active as N0MHJ/4 from **Garden Key, Dry Tortugas Islands** (WW Loc. EL84, ARLHS USA-316, Loggerhead Key 216, POTA K-0023, ARRL NP 17), 70 miles west of Key West, FL, between April 22-25th. Activity will be mainly on 6m using CW and SSB. Gene states that most of his operations will be during the daytime only. He also plans to be on 20 meters and 40 meters (contacts with the "locals"). QSL via LoTW, but he will not upload the logs until he returns to his home in SW FL.

As I have mentioned, I'll let you all know if something of great interest comes up during the month. In the meantime please use your license privileges and get on the air. Have FUN with your stations.

**Until next month - 73 and Gud DX....**

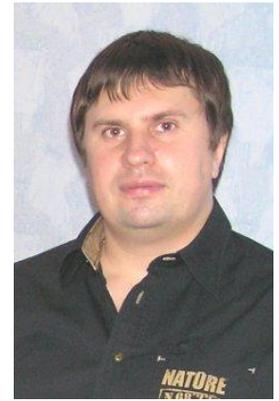


Apparently there's a third option between burial and cremation.



## Small Receiver and its Great Story

**Alex, UT5UY**



*One evening UT5UY, Alex, was very restless from the constant bombardment by Russian bombs and missiles. As the fighting was underway in the outskirts of Kyiv Alex was unable to sleep and wrote this short story.*

### Small receiver and its great story

In January 2022, I had a big trip to the USA, related to business and my favorite hobby HAM radio. In just seventeen days I was able to visit Nevada, New York, Arizona, California and Mexico. The plans also included attending HamCation in Florida. However, good friends suggested that these days Russia might start a war against Ukraine. Therefore, I decided to change the ticket and return to my family in Kyiv earlier than the scheduled date.

During the trip, I was glad to visit the exhibition in Las Vegas, walk all over Manhattan in New York with a visit to the UN HQ, participate in CQ WW 160 CW Contest as part of K6VHF great team, relax in sunny California and dine at a famous Caesar's Restaurant founded almost 100 years ago in Tijuana Mexico.

A few final days of my trip I spent with my fellow countryman Vlad, WY6DX (ex UY5DX). On February 1,

2022, on the day of departure home from LAX, Vlad hands me a small box and says: "Take a gift for your son". It was a small receiver. Then, less than a month before the war start's, I could not even imagine how this receiver would be useful. In the bomb shelter, it received broadcast stations and became the only source of information for my family.

**The receiver in the bomb shelter. Who would have ever thought life would change so much and so quickly.**

This receiver seems to have been specially created for war: built-in LI-ion battery, can be powered by three AAA batteries or an external source, solar battery on top, powerful flashlight, 3 types of loud alarm, dynamo machine (fold-down handle on the back) and USB for charging gadgets.

I can't even believe that less than a month separates my trip to the USA and the start of Russia's war against Ukraine.

Such a story about a random gift that became a significant event in my family's life.



# PCARS IO Group

Members are reminded that PCARS has a IO Group site dedicated to PCARS. It's a great site to sign up for and get on the mailing list for important PCARS information.

Check out the PCARS IO Group at:  
<https://groups.io/g/PCARS>

*Two things every member should do.*

1. Check the PCARS web site every day, maybe a couple of times a day, to see new info that's posted.
2. Join the PCARS IO Group. That's a great place to post message when you are looking for information or have a question about something. Try it - you just may like it!!



## Contest University Dayton

# Contest University

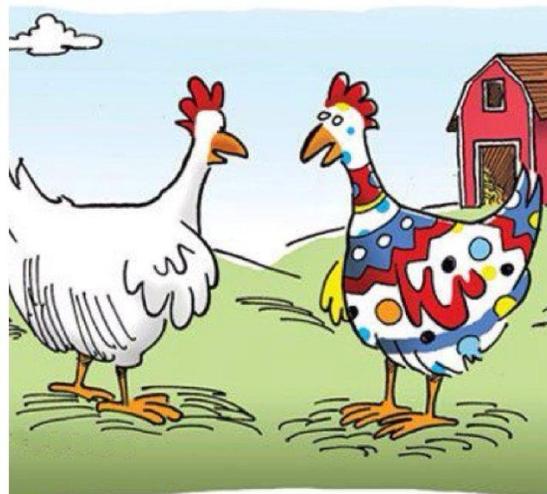
**Tim, K3LR**  
Contest University



**Contest University** registration is now **OPEN** and ready for May 19, 2022, at the Hope Hotel in Dayton, Ohio.

For 15 years - Contest University has had over 15,000 hams participate worldwide. We are very excited to be back in person in Dayton, Ohio - the day before Hamvention®.

For more information and to sign up please go to: <https://www.contestuniversity.com/>



"I was an Easter egg."



## Field Day 2022



**Tony, WA8AR**  
Field Day Chairman



**ARRL Field Day**

*No report submitted*

## Field Day 22 - CW Station



**George, K3GP**  
CW Station Captain



**FIELD DAY JUNE 25 AND 26**

**STILL SEEKING: CW OPERATORS**

We have a number of volunteers to operate CW at field day this year and could certainly use a few more. Consider joining in at the CW position.

I will soon be preparing a preliminary CW operating schedule - CW Operators, let me know if you have a preferred time or times.

Keep in mind that field day CW speeds are more moderate than other operating events and this is a great opportunity to dust off and refresh your CW skills.

To sign up, see me at the upcoming club meeting or send me an email to: [rttyfan@gmail.com](mailto:rttyfan@gmail.com)

Additional CW operators are more than welcome, I will adjust the operator schedule and durations accordingly.  
email me at [rttyfan@gmail.com](mailto:rttyfan@gmail.com)

DAY	TIME	OPERATOR
SAT 25 JUN	14:00 - 17:00	K3GP
SAT 25 JUN	17:00 - 20:00	
SAT 25 JUN	20:00 - 23:00	
SAT 25 JUN	23:00 - 02:00	
SAT 25 JUN	02:00 - 05:00	
SUN 26 JUN	05:00 - 08:00	
SUN 26 JUN	08:00 - 11:00	
SUN 26 JUN	11:00 - 14:00	

**CW will coordinate with FLEX to insure that both are not on the same band at the same time.**

# Field Day 22 - Flex Station



**Rick, K8CAV**  
Flex Station Captain



## FIELD DAY JUNE 25 AND 26

As of the day I'm writing this article, the days are winding down until PCARS Field Day. PCARS is again operating in class 4A, meaning there are four active stations/transmitters at any given time, and not including VHF and GOTA. Two of those are band and mode specific, 20 meters phone and 40 meters phone, while one is mode specific, band agile, CW.

The Flex Station fills the gap between the other three. Flex is both band and mode agile, meaning we can operate on all of the HF bands (with certain limitations) in phone, CW, or digital. The limiting factor in band selection is that CW and digital operate in the same sub-band of each HF band, and therefore can't operate at the same time in the same band due to desense/overload problems. To overcome this, CW is given priority choice of 20 meters or 40 meters and Flex digital is given priority choice of 80 meters. CW and Flex digital coordinate to make sure neither is on the same sub-band at the same time. Also, Flex can't operate on phone on 20 meters and 40 meters as we have stations on both bands for phone.

Flex digital can operate in either PSK-31 or RTTY using the fldigi app, or in FT4 or FT8 using the WSJT-X app. The Flex Station integrates its digital software apps with the N3FJP logging app in one station computer. This results in easier, less time consuming logging and eliminates the need for a separate logger for digital operations. During last year's Field Day, the Flex Station broke all records by a substantial amount in the digital mode. Much of this was due to strategizing and pre-Field Day training on the use of FT4/FT8. **This year we will again hold a pre-Field Day training session to maximize contacts.**

One other factor that could have a significant impact on all HF modes for Flex, is the increase number of sunspots as we progress into the current cycle. If we have good numbers for Field Day, this should open both 15 meters and 10 meters for phone, digital, and CW that we haven't seen for a number of years.

The current 2022 Flex Station schedule is shown here. As you can see, we already have a number of operators signed up, but we need a lot more! If you want to operate at Flex this year, please send an email to [k8cav.coms@gmail.com](mailto:k8cav.coms@gmail.com) and let me know what time slot and mode you'd prefer to operate on.

DAY	TIME	MODE	OPERATOR	LOGGER
SAT 25 JUN	14:00 - 16:00	10M, 15M PH or DIG; 20M DIG *	Jim AC8NT	JC KC8JC
SAT 25 JUN	16:00 - 18:00	10M, 15M PH or DIG; 20M DIG *	Bob N8QE	
SAT 25 JUN	18:00 - 20:00	80M PH, CW, or DIG		
SAT 25 JUN	20:00 - 22:00	80M PH, CW, or DIG		
SAT 25 JUN	22:00 - 00:00	80M PH, CW, or DIG		
SUN 26 JUN	00:00 - 02:00	80M PH, CW, or DIG		
SUN 26 JUN	02:00 - 04:00	80M PH, CW, or DIG		
SUN 26 JUN	04:00 - 06:00	80M PH, CW, or DIG	Rick KD8WCK	Mara KE8KBJ
SUN 26 JUN	06:00 - 08:00	80M PH, CW, or DIG	Gene W8NET	John KE8MXR
SUN 26 JUN	08:00 - 10:00	10M, 15M PH or DIG; 20M DIG *	Bob N8QE	
SUN 26 JUN	10:00 - 12:00	10M, 15M PH or DIG; 20M DIG *		
SUN 26 JUN	12:00 - 14:00	10M, 15M PH or DIG; 20M DIG *		

**FLEX and CW to cooperate on 20M and 40M so both are not on the same band at the same time; CW has band priority on 20M and 40M; FLEX has band priority on 80M**

\* If 10M and/or 15M is open make QSO's using PH, CW, or DIG, otherwise use the 20M or 40M band DIG as indicated for that time slot.

## Field Day 22 - 20 Meter Station



**Mike, N8WCP**  
20 Meter Station Captain



### FIELD DAY JUNE 25 AND 26

The schedule for the 20M station is filling up quickly. Currently have four open slots. We're making a few minor changes to the station setup. This year we'll be using a mast supported dipole. This should make setup/teardown simpler and faster. We're also trying to source a SotaBeams Contest Console which will add some automation to the station. These are in short supply so I hope our friends at DXE can help. If you're interested in participating in the 20M station, send me an email at [vicepresident@portcars.org](mailto:vicepresident@portcars.org).

Our goal is max contacts and to help with that we're going to be operating phone during the day and FT4, FT8, or CW during the night. The use of digital and/or CW at night should keep the contacts rolling.

DAY	TIME	OPERATOR
SAT 25 JUN	14:00 - 16:00	Mike - N8WCP
SAT 25 JUN	16:00 - 18:00	Tim - W8GPN
SAT 25 JUN	18:00 - 20:00	Bob - N8QE
SAT 25 JUN	20:00 - 22:00	
SAT 25 JUN	22:00 - 00:00	Greg - KA8TOA
SUN 26 JUN	00:00 - 02:00	Greg - KA8TOA
SUN 26 JUN	02:00 - 04:00	Joe - W8KNO
SUN 26 JUN	04:00 - 06:00	
SUN 26 JUN	06:00 - 08:00	
SUN 26 JUN	08:00 - 10:00	Brandon - KE8ARB
SUN 26 JUN	10:00 - 12:00	Bob - N8QE
SUN 26 JUN	12:00 - 14:00	

## Field Day 22 - VHF Station



**Mike, KB8TUY**  
VHF Station Captain



If you would like to be on "Stand By" – let me know what times you would be at the Field Day site and willing to be on call. If you would be willing to operate or log, PLEASE! Let me know what time slots you would be willing to be an operator or logger. Email me at:

[mryan@apk.net](mailto:mryan@apk.net)

DAY	TIME	OPERATOR	LOGGER
SAT 25 JUN	14:00 - 16:00		
SAT 25 JUN	16:00 - 18:00		
SAT 25 JUN	18:00 - 20:00		
SAT 25 JUN	20:00 - 22:00		
SAT 25 JUN	22:00 - 00:00		
SUN 26 JUN	00:00 - 02:00		
SUN 26 JUN	02:00 - 04:00		
SUN 26 JUN	04:00 - 06:00		
SUN 26 JUN	06:00 - 08:00		
SUN 26 JUN	08:00 - 10:00		
SUN 26 JUN	10:00 - 12:00		
SUN 26 JUN	12:00 - 14:00		

# Field Day 22 - 40 Meter Station



**Ed, K8IV**  
40 Meter Station Captain



## FIELD DAY JUNE 25 AND 26

Field Day is but three short months away. Over the past several years, PCARS has managed to improve our standings and last year achieved second place in the 4A classification! We will need a significant effort to pass the first place team, including a strong 40 meter effort.

I'm looking for operators to keep the 40 meter station active for the entire twenty four hour period. Once again the operation will be in an air conditioned trailer protected from the outside elements.

Please consider signing up for 40 meter station at an upcoming club meeting or by email to: [EP.K8IV@gmail.com](mailto:EP.K8IV@gmail.com).

DAY	TIME	OPERATOR
SAT 25 JUN	14:00 - 17:00	
SAT 25 JUN	17:00 - 20:00	
SAT 25 JUN	20:00 - 23:00	
SAT 25 JUN	23:00 - 02:00	
SAT 25 JUN	02:00 - 05:00	
SUN 26 JUN	05:00 - 08:00	
SUN 26 JUN	08:00 - 11:00	
SUN 26 JUN	11:00 - 14:00	

Additional operators are more than welcome, I will adjust the operator schedule and durations accordingly. email me at [EP.K8IV@gmail.com](mailto:EP.K8IV@gmail.com)



### INTERPRETING RAPID TEST RESULTS

 NEGATIVE	 POSITIVE	 APPROXIMATELY POSITIVE	 POSITIVE (COLLEGE RULED)
 GOOD CELL SIGNAL	 DID YOU KNOW THESE LINES ARE ACTUALLY PARALLEL?	 THE BLAIR WITCH IS NEAR	 CLICK TO EXPAND COVID MENU

### Logic gate for married radio hams

HAM	XYL	OUTPUT
WRONG	RIGHT	XYL IS RIGHT
RIGHT	RIGHT	XYL IS RIGHT
RIGHT	WRONG	XYL IS RIGHT
WRONG	WRONG	HAM IS WRONG

## TopBand & Contest Dinners at Dayton 2022



**Tim, K3LR**

**Dayton Top Band Dinner Chairman  
Dayton Contest Dinner Chairman - 28 years**

### **32nd Annual Dayton TopBand Dinner**

Continuing the great Dayton Top Band dinner tradition that George, K8GG and George, W8UVZ started, I am proud to announce the 32nd Annual Dayton TopBand dinner. Dinner reservations are now available for 2022! Friday evening May 20, 2022 - 6:30 pm at the Hope Hotel.

<https://www.hopehotel.com/>

**ARRL Member John Sluymer, VE3EJ, will be the Top Band Dinner speaker during Hamvention.**

Top Band Social hour is at 6:00 PM and Dinner starts at 7:00 PM. Come and have dinner with the guys you work on 160 meters and enjoy great TopBand discussions. Dinner reservations are available on line with credit cards and PayPal. Thanks to Teri, K8MNJ for coordinating and organizing the 2022 TopBand Dinner. The 2022 Dayton TopBand Dinner details are here: <http://topbanddinner.com> Scroll down to make your reservations. We will pass the mic so everyone can introduce themselves. We will also have the exciting TopBand DXCC count down.

Four nights of great Top Band, DX and Contesting hospitality are also at the Hope Hotel Contest Super Suite. <http://contestsupersuite.com> If you enjoy having fun on the 160 meter band, the 32nd Annual Top Band Dinner is for you! Hope to see you at the 2022 Dayton TopBand Dinner

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### **The 28th Annual Dayton Contest Dinner**

The North Coast Contesters are proud to announce the 28th Annual Dayton Contest Dinner at the Hope Hotel - Wright Patterson Air Force Base, Ohio <https://www.hopehotel.com/>

**ARRL Member Joe Rudi, NK7U, will be Contest Dinner speaker.** Read about NK7U's contest operations (<http://nk7u.com/>). The Contest Dinner will take place on Saturday evening, May 21, 6:30 PM.

2022 Contest Dinner tickets are on sale now exclusively via our web site. HUGE thanks to Scott, KA9FOX and QTH.com for designing, building, donating and running the Contest Dinner web site.

<http://contestdinner.com>

Master of Ceremonies for the 2022 Dayton Contest Dinner is Contest Hall of Fame member and CQ World Wide Contest Director, John Dorr, K1AR. Thanks to Teri, K8MNJ for coordinating and organizing the 2022 Contest Dinner.

The 2022 Contest Hall of Fame inductees will be announced during the 2022 Dayton Contest Dinner. Thanks to Icom America and DX Engineering - the MAIN prize is an Icom IC-7610. Seating is random. Tables are set in rounds of 10. You can purchase an entire table for your group (purchased group tables are set for round 10). Full Table purchases are reserved seating. Tickets are only available on <http://contestdinner.com>

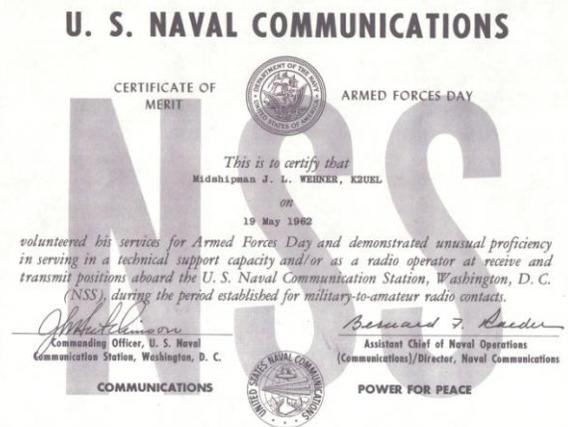
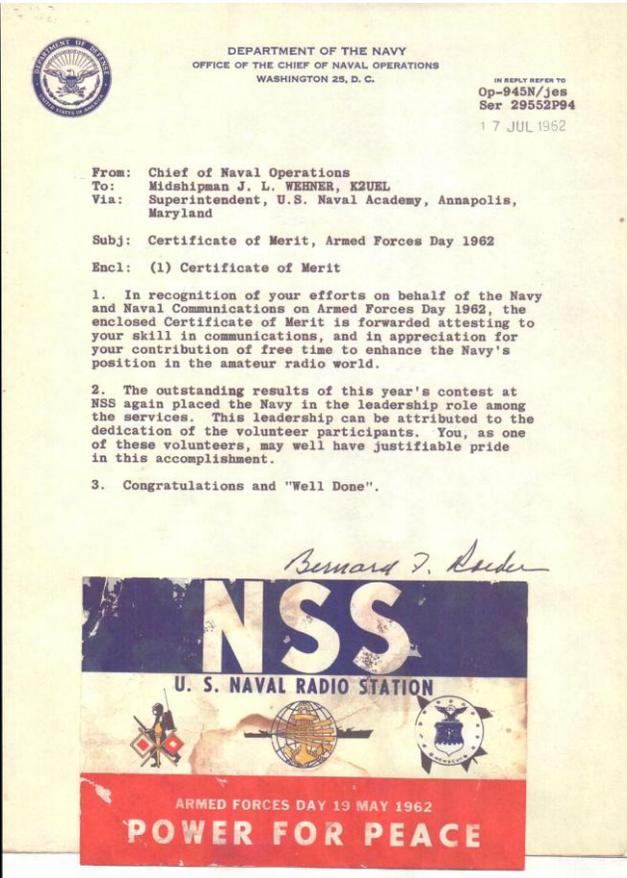
**There are no tickets for sale at the door.**

# Paper Chase - Armed Forces Day



Joe, W8KNO

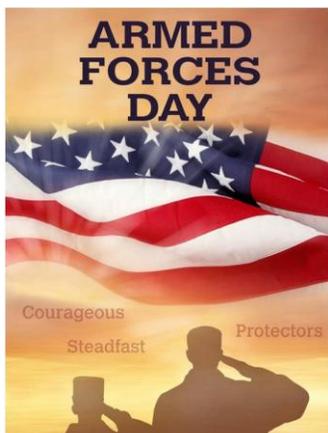
April brings you the feeling of working outside the bands and not have to worry about receiving an Official Observer Notice. "How?" you ask. The Armed Forces Cross Band Test. You will be operating "Split" not "Out of Band." The frequencies will not be published until the 1st of April so look them up. I grant you will get a thrill when you look at the frequency and see your out of band. That thrill is nothing to the person at the other end from an special station. Just ask those that have operated from PJ2T or K3LR. I know because I got to



operate NSS's 75m AM station.

Enjoy, Joe - W8KNO (ex K2UEL)

The 2022 running of the Armed Forces Day (AFD) Cross-Band exercise will be held on May 14, 1300 – 2200 UTC. A complete list of participating stations, modes, frequencies, times, and other details will be announced on April 1. The event is open to all radio amateurs. Armed Forces Day is May 21, but the AFD Cross-band military-amateur radio event traditionally takes place 1 week earlier, in order to avoid conflicting with Dayton Hamvention®. During the exercise, radio amateurs listen for stations on military operating frequencies and transmit on frequencies in adjacent amateur bands.



Military and amateur stations have taken part in this event for more than 50 years. It's an exercise scenario, designed to include ham radio and government radio operators alike.

Per previous announcements: "The AFD Cross-band Test is a unique opportunity to test two-way communications between military communicators and radio stations in the Amateur Radio Service, as authorized in 47 CFR 97.111. These tests provide opportunities and challenges for radio operators to demonstrate individual technical skills in a tightly controlled exercise scenario that does not impact any public or private communications."

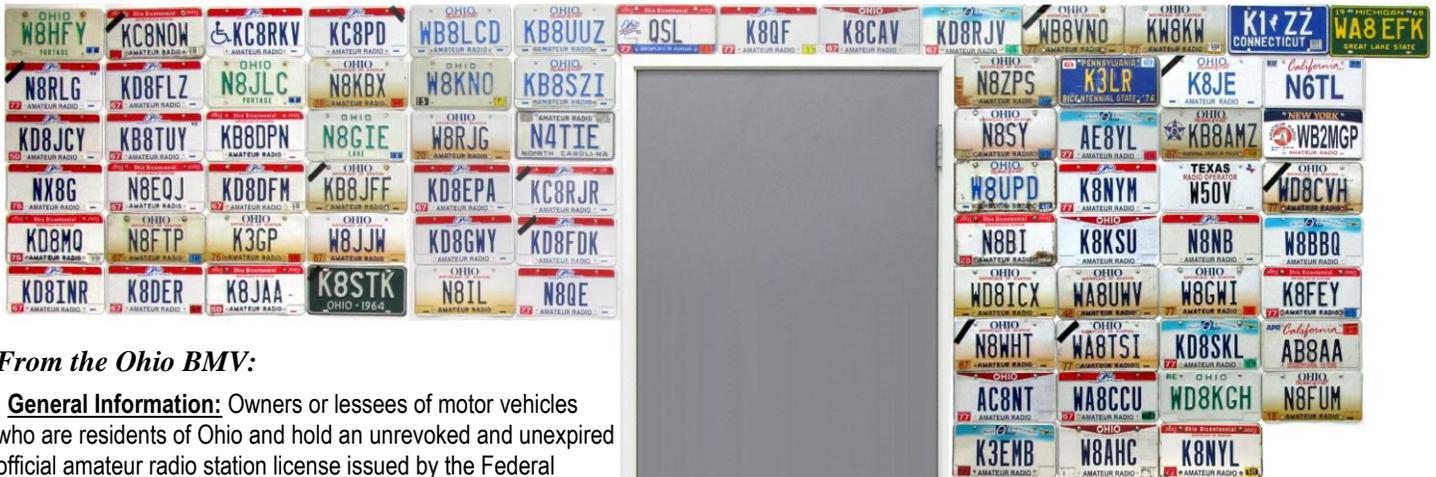
Military stations in various locations will transmit on selected military frequencies and announce the specific ham band frequencies they are monitoring.

An AFD message will be transmitted utilizing the Military Standard (MIL-STD) serial PSK waveform (M110), followed by MIL-STD Wide Shift FSK (850 Hz RTTY), as described in MIL-STD 188-110A/B. The AFD message will also be sent in CW and RTTY.

# PCARS Ham Radio License Plates Wanted !!! PLEASE !!

**Dig out that amateur radio call sign license plate (with your present call sign), clean it up and bring it to be permanently affixed to the wall in the PCARS club station.**

We have 75 PCARS member's ham plates now, **but we can use more.** Don't have ham radio call plates on your vehicle? Well for those of you in Ohio, you can get the plates sent to you by going to any License Bureau office and filling out the special plate registration form. Have a copy of your current FCC license when you apply. The official form to obtain your Ohio Amateur Radio license plates is on the PCARS IO Group site. Then you'll have an old plate to bring in to get hung up as a *permanent part of PCARS history.*



## From the Ohio BMV:

**General Information:** Owners or lessees of motor vehicles who are residents of Ohio and hold an unrevoked and unexpired official amateur radio station license issued by the Federal Communications Commission may apply for these plates. The official call letters will be the license plate numbers.

**Registrant Eligibility:** Owner must submit a copy of the un-revoked and unexpired official amateur radio license issued by the Federal Communications Commission. (FCC).

**Title Requirements:** Ohio Certificate of Title issued in the same name as the FCC license, either singly or jointly, or the name on the FCC license is the same name on the lease agreement.

**Vehicle Information:** These plates may be issued to passenger vehicles, non-commercial trucks, recreational vehicles, house vehicles and non-commercial trailers.

**Type of Plates:** Plates will be manufactured with the FCC license.

**Issuance Information:** Amateur Radio plates cannot be issued with system assigned, reserved, or personalized plate formats.

Renewal of plates can be done at your local Deputy Registrar or by mail using their renewal notice. **Amateur Radio License Holders must provide a copy of their current unexpired and unrevoked official amateur radio license issued by the Federal Communications Commission (FCC) at the time of any type renewal transaction.**

All plates will be mailed directly to the address on your registration card unless customer requests otherwise. The deputy will issue your registration card, stickers and provide you with a permit which will allow you to operate your vehicle while your plates are being manufactured. Special license plate applications are available at all Deputy Registrar license agency locations. These plates cost an additional \$10.00 annually plus the normal registration fees. The fee is determined by Ohio Revised Code section 4503.14.

## PCARS is on YouTube

That's right - PCARS is now on YouTube. So, what does that mean? Hey, we have a new place to put all kinds of videos that are about PCARS for the world to see.



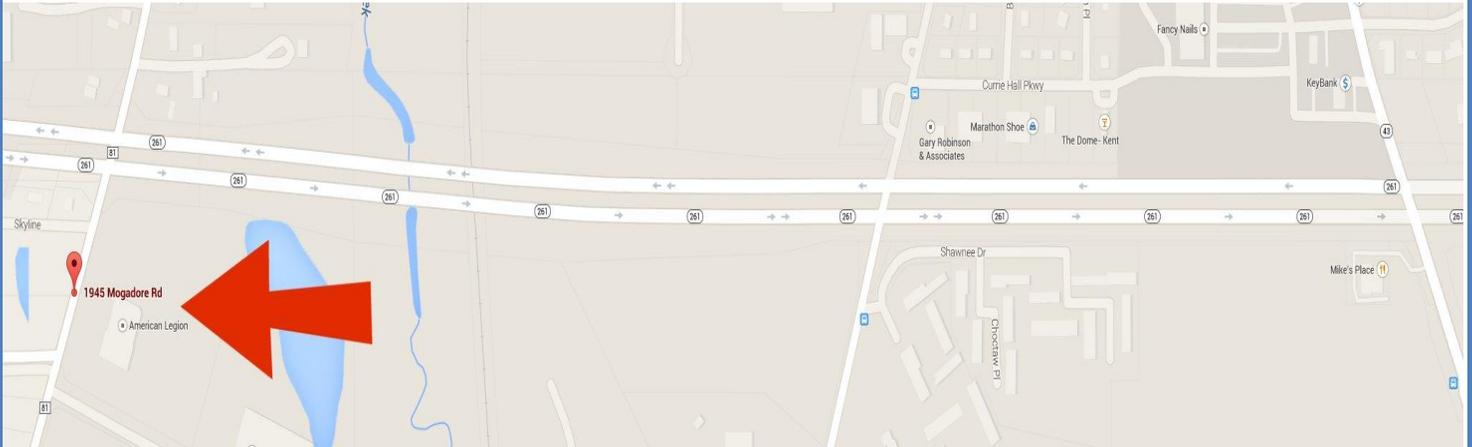
# PCARS Meetings

The Portage County Amateur Radio Service (PCARS) in-person meetings are held the **2<sup>nd</sup> Monday** of each month and start at 7:00 pm.



**CHECK WEBSITE FOR UPDATES ABOUT IN-PERSON MEETINGS**

*The meetings are held at The American Legion, Post 496  
1945 Mogadore Road - in Kent. (Just South of Route 261)*



The American Legion Post 496 is located on the southeast corner of State Route 261 and Mogadore Rd. The driveway is on the south side of the building and as you enter you will pass through a parking lot on the south side of the building. Please do not park in this lot but instead continue on to the parking lot on the east side of the building which is the near the rear entrance into the Post 'Canteen'. As you enter the post from this entrance you'll see a bar to the left and a dining area to the right. The meeting area we'll be in is on the right, to the rear of the dining area.



*The picture on the left shows  
The American Legion Post 496  
as viewed from Mogadore Road.  
(looking East)*



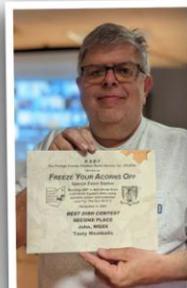
The menu consists of your basic burger / dog / chicken sandwiches, wings, fries, onion rings, and salads. There is also an appetizer selection as well. Adult beverages are available and costs are in line with what you would expect at most bar-restaurant facilities.

If you are a member of the The American Legion, The American Legion Auxiliary, or the Sons of The American Legion, bring your ID card as you get a substantial discount on adult beverage pricing.

*Photos from the March Meeting*



**PCARS-March 14, 2022**



18 APRIL  
**WORLD AMATEUR  
RADIO DAY**

اليوم العالمي لراديو الهواة

Día Mundial del Radioaficionado

Всемирный День радиолюбителя

Journée mondiale de la radio amateur

世界业余无线电日

**Celebrating Amateur Radio's Contribution to Society**



[WWW.IARU.ORG/WORLD-AMATEUR-RADIO-DAY](http://WWW.IARU.ORG/WORLD-AMATEUR-RADIO-DAY)





Silvercreek Amateur Radio Association  
Hamvention 2022  
Saturday, May 21, 2022 @ 5:00 AM



Don't miss this year's SARA Bus Trip to the world's largest topical conference and product exhibition. Save on gas, parking, and walking by riding with us! Leave the driving to us, and you can come and go to the flea market with your great purchases and leave them on the bus. This event takes place at the Greene County Fairgrounds in Xenia, Ohio.

The cost of the **Bus & Entrance ticket** to the Hamvention:  
**\$100\* before April 15, 2022**

The cost of the **Bus Only** to the Hamvention:  
**\$74\* after April 15, 2022**

*(You will be responsible for getting your own entry ticket -  
see <https://hamvention.org/purchase-tickets/#> for more information.)*

\*The above pricing does not include driver's tip for which a hat will be passed.

SARA reserves the right to cancel this trip should a minimum of 35 riders not be secured by April 15th. If that happens, a full refund will be made.  
We will take riders right up to departure that morning (if there are seats available) on a first come, first served basis.

**Please arrive by 5:00 AM**

**Departure time is 5:30 AM SHARP. Please be on time so you don't miss the bus!**

There will be a stop for breakfast @ McDonald's & a dinner stop @ Cracker Barrel (both out of pocket expense).

**The bus will leave the fair grounds for home at 4:00 PM**

To Order Visit: [www.w8wky.org/bustrip](http://www.w8wky.org/bustrip)

Direct questions to:

Russell Orr (KD8VYT)

[kd8vyt@arrl.net](mailto:kd8vyt@arrl.net)

330-524-9175

**Transportation provider: Great Day! Tours**

*This bus is a smoke free bus, so there will be no smoking permitted.*

**Location of Departure - 3979 Medina Rd, OH-18, Akron, OH 44333**

*(Park in spaces as close to Rt. 18 as possible.)*

*Parking (as always) is at your own risk,*

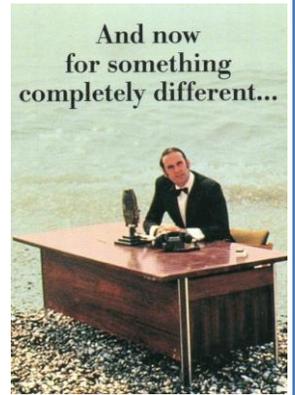
*Please pass the word out to all of your ham friends & computer geeks.*

SARA Uses Repeater 147.390 PL 114.8

Web Site: [www.w8wky.org/bustrip](http://www.w8wky.org/bustrip)

**Think a gallon of gas is expensive?**

All these examples do NOT imply that gasoline is cheap; it just illustrates how outrageous some prices are. This makes one think, and also puts things into perspective.



Diet Snapple, 16 oz , \$1.29 .. \$10.32 per gallon!



Starbuck's Reg. Coffee 16 oz, \$2.10.. \$16.80 per gallon!

Lipton Ice Tea, 16 oz , \$1.19 ... \$9.52 per gallon!

Gatorade, 20 oz , \$1.59 ..... \$10.17 per gallon!

Ocean Spray, 16 oz , \$1.25 .. \$10.00 per gallon!



Brake Fluid, 12 oz , \$3.15 .... \$33.60 per gallon!

Vick's NyQuil, 6 oz , \$8.35 ... \$178.13 per gallon!

Pepto Bismol, 4 oz, \$3.85 . \$123.20 per gallon!



Whiteout, 7 oz , \$1.39 ..... \$25.42 per gallon!

Scope, 1.5 oz , \$0.99 .....\$84.48 per gallon!

And this is the REAL KICKER.

Evian water, 9 oz , \$1.49 ...\$21.19 per gallon! \$21.19 for a gallon of WATER!! and the buyers don't even know the source!! (Evian spelled backwards is Naive.)



Ever wonder why computer printers are so cheap? So they can hook you for the ink. Someone calculated the cost of the ink; you won't believe it but it's true: \$5,200 a gal. \$5,200 A GALLON!!!

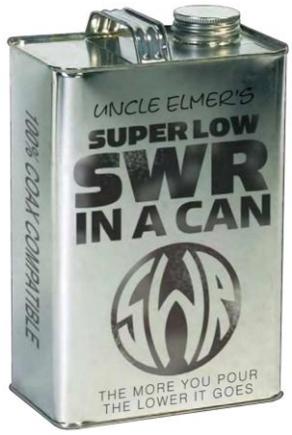
So, the next time you're at the pump, be glad your car doesn't run on water, Scope, Whiteout, Pepto Bismol, NyQuil or, God forbid, Printer Ink!!!!



# phonetic alphabet

<b>A</b> alpha	<b>B</b> bravo	<b>C</b> chunky
<b>D</b> drape	<b>E</b> egg	<b>F</b> fingler
<b>G</b> guy fieri	<b>H</b> horp	
<b>I</b> i forget	<b>J</b> jorp	<b>K</b> risten Stewart is not a great actress
<b>L</b> like she is okay, but, just, not great	<b>M</b> mup	
<b>N</b> nup	<b>O</b> oboe	<b>P</b> pwom
<b>Q</b> quimple	<b>R</b> Rob Schneider	
<b>S</b> soup & tequilla!	<b>T</b> tequila & soup!	<b>U</b> umm?
<b>V</b> kevin	<b>W</b> wu-tang	
<b>X</b> ex-wife	<b>Y</b> why	<b>Z</b> zee last letter in the alphabet

Reduce confusion with this standardized NATO alphabet chart.



# extremely confusing phonetic alphabet

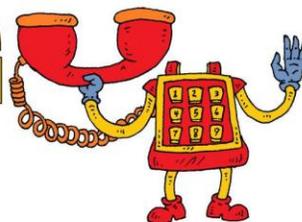
<b>A</b> Aisle Are	<b>B</b> BBQ Bjork	<b>C</b> Cue Cease
<b>D</b> Double U	<b>E</b> Eye Essay Eulogy Idiot	<b>F</b> Fjord 4chan
<b>G</b> Gnat Gnome	<b>H</b> Hour - Herb Hombre	
<b>I</b> Ian IOU One Myself Indie	<b>J</b> Juanita Jalapeno	<b>K</b> Know Knee Knight
<b>L</b> LOL Fifty	<b>M</b> Mnemonic	
<b>N</b> Nguyen Enter	<b>O</b> Ouija Board Opossum	<b>P</b> Pneumonia Pterodactyl Psoriasis
<b>Q</b> Queue Cucumber	<b>R</b> Are You Listening? Rwanda	
<b>S</b> See Dyslexic	<b>T</b> Tsunami Thesaurus	<b>U</b> Uber Double U
<b>V</b> Five Visceral	<b>W</b> Write Why Wry	
<b>X</b> Xylophone Xanax - Ten	<b>Y</b> You	<b>Z</b> Zylophone Zebra Shark

# alcoholic alphabet

<b>A</b> Alcohol	<b>B</b> Booze	<b>C</b> Coctail
<b>D</b> Daiquiri	<b>E</b> Espumante	<b>F</b> Fosters
<b>G</b> Gin	<b>H</b> Hooch	
<b>I</b> Intoxicated	<b>J</b> Juice	<b>K</b> Kamikaze
<b>L</b> Liquor	<b>M</b> Moonshine	
<b>N</b> Night Cap	<b>O</b> Ouzo	<b>P</b> Port
<b>Q</b> Quentao	<b>R</b> Rum	
<b>S</b> Sherry	<b>T</b> Tequila	<b>U</b> Upchuck
<b>V</b> Vodka	<b>W</b> Wine	
<b>X</b> Xante	<b>Y</b> Yuengling	<b>Z</b> Zombie



# EXTREMELY CONFUSING PHONETIC ALPHABET



<b>A</b>	Aisle Are		Nguyen Enter	<b>N</b>
<b>B</b>	BBQ Bjork		Oujia Board Opossum	<b>O</b>
<b>C</b>	Cue Cease		Pneumonia Pterodactyl Psoriasis	<b>P</b>
<b>D</b>	Double U		Queue Cucumber	<b>Q</b>
<b>E</b>	Eye Essay Eulogy Idiot		Are You Listening? Rwanda	<b>R</b>
<b>F</b>	Fjord 4chan		See Dyslexic	<b>S</b>
<b>G</b>	Gnat Gnome		Tsunami Thesaurus	<b>T</b>
<b>H</b>	Hour Hombre Herb		Uber Double U	<b>U</b>
<b>I</b>	Ian IOU One Myself Indie		Five	<b>V</b>
<b>J</b>	Juanita Jalapeno		Write Why Wry	<b>W</b>
<b>K</b>	Knight Know Knee		Xylophone Xanax Ten	<b>X</b>
<b>L</b>	LOL Fifty		You	<b>Y</b>
<b>M</b>	Mnemonic		Zylophone Zebra Shark	<b>Z</b>



Special Today Only!



BAOFENG UV82BAD

Bad UV82 radio. Assorted problems, radio only, no accessories

**\$1.95**

Special Today Only!



The Ultimate Noise Filter

Will take out any noise. Man made, atmospheric, background, any kind of noise. Works with any radio. Works with any speaker or headset. Attenuation up to 32db. Eliminate the noise factor easily. Has not been tested for voices in head.

**\$9.95**

Special price only good on 4/1/2019. Limit 1 pair per customer.



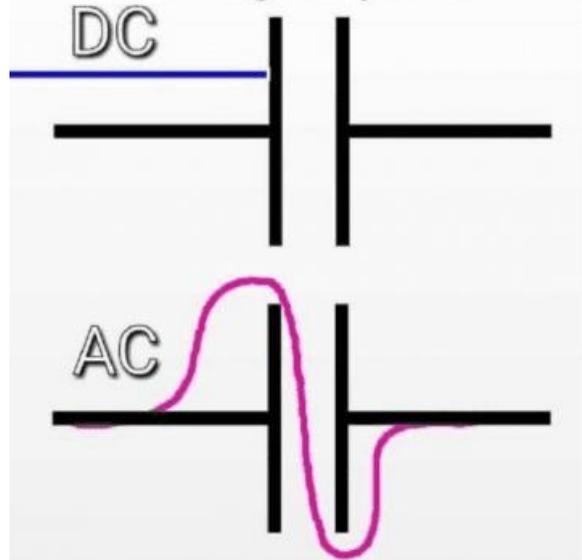
**WARNING!**



Doug left a Baofeng on his front seat. Someone broke in and left three more!

Please keep your Baofeng in the glove box, for safety's sake!

Why AC current passes through capacitor.



## Thanks & 73



**Parky, KB8UUZ**  
PCARS Newsletter Editor



I really appreciate the help in gathering material to keep this newsletter number one. Without your help we would not have received the newsletter awards in past years. All of our members (and others) look forward to getting this newsletter every month, so keep sending those inputs! I'm sure you know PCARS is known as the **BIG FUN** amateur radio club. So chip-in and send your article in to keep this newsletter great for 2022 and beyond.

Thanks go out to the contributors for this month's newsletter:

**AC8QG, N8WCP, WA8EFK, N8SY, KB8UUZ, WG8X, KE8ARB, WB8YY5, KJ3X, WA8UWV, W8CI, KA8TOA, K8CAV, NF8R, WX4QZ, GX4CRC, G4KIU, WB2MGP, N1SFE, 3Y0J, K8CAV, W8PT, UT5UY, K3LR, K3GP, K8CAV, W8KNO, Southgate ARC, IARU, CQ Blog, Ham Hijinks, The ARRL and the World-Wide Web**  
With *your* continued help – we can keep making this a *great* newsletter.



### **It Keeps Coming - Do All You Can to be SAFE**

After more than a month of decline, COVID cases started to increase around the world in March, the WHO said, with lockdowns in Asia and China's Jilin province battling to contain an outbreak. The picture in Europe is also not universal. BA.2 is at least 30% more transmissible than its cousin BA.1, and it has been driving new COVID-19 surges in the United Kingdom and other European countries. According to a World Health Organization report, the highly contagious subvariant is dominating cases worldwide, and accounted for about 86% of cases reported to the WHO between Feb. 16 and March 17. In Hong Kong, BA.2 recently brought on a deadly outbreak reminiscent of the early days of the pandemic. Experts have begun to warn that the United States could soon see a similar wave to that seen in Europe, potentially driven by BA.2, the lifting of restrictions and potential waning immunity from vaccines given several months ago. "I agree with the easing of restrictions, because you can't think of it as an emergency after two years," said Antonella Viola, professor of immunology at Italy's University of Padua. "We just have to avoid thinking that COVID is no longer there. And therefore maintain the strictly necessary measures, which are essentially the continuous monitoring and tracking of cases, and the maintenance of the obligation to wear a mask in closed or very crowded places."

*Please be careful out there.*



**PCARS K8BF**  
*The Club that puts the FUN in Ham Radio!*



# The Portage County Amateur Radio Service, Inc. (PCARS) - Ohio

## ~ The Hamvention® 2018 "Club of the Year" ~

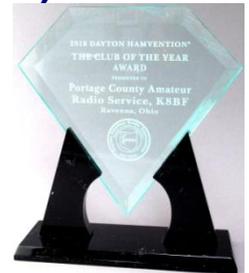


PCARS meets the second Monday of each month at the **Kent American Legion Post 496**,  
1945 Mogadore Rd. - just South of Rt. 261 - Enter the rear of the building for the meeting room.

**Meeting starts at 7:00 pm - All are welcome to attend ~ Stop in and say hello!**

PCARS uses the **K8IV** repeater: **146.895 MHz PL 118.8** in Sugar Bush Knolls ~ EchoLink Node: **K8BF-L**

Check PCARS out on the web: [www.PORTCARS.ORG](http://www.PORTCARS.ORG) -or- [www.K8BF.ORG](http://www.K8BF.ORG)



~ 2022 Officers ~		2022 PCARS Appointments & Committees	
President - Nick Wagner - AC8QG Vice President - Mike Szabo - N8WCP Treasurer - Greg Ash - KA8TOA 1 Year Trustee - John Myers - WG8X 2 Year Trustee - Tom Parkinson - KB8UUZ 3 Year Trustee - Chuck Patellis - W8PT Past President - Tom Sly - WB8LCD	ARRL Awards - DXCC	<b>W8KNO</b>	Joe Wehner
	Club Site Manager/Liaison	<b>K8CAV</b>	Rick Kruis
	Contest Coordinator	<b>W8PT</b>	Chuck Patellis
	EchoLink		
	Field Day Chairman, 2022	<b>WA8AR</b>	Tony Romito
	FYAO Chairman	<b>W8PT</b>	Chuck Patellis
	Historian	<b>KB8SZI</b>	Peggy Parkinson
	K8BF Callsign Trustee	<b>N8AMY</b>	Amy Leggiero
	K8BF QSL Manager	<b>N8AMY</b>	Amy Leggiero
	Membership Chairman		
	Net Control Coordinator	<b>KA8TOA</b>	Greg Ash
	Newsletter Editor	<b>KB8UUZ</b>	Tom Parkinson
	OSPOTA Chairman	<b>KB8UUZ</b>	Tom Parkinson
PCARS Meeting Photographer	<b>KE8LWO</b>	Bernadette Wagner	
~ Meetings & Net ~	Public Information Officer		
2nd Monday of each month, 7pm Thursday night Club Net at 8 pm on 146.895	Secretary	<b>KE8EGF</b>	Paul Hyland
	Social Media		
	Tech, Gen & Extra Class Manager		
	Volunteer Examiner Liaison	<b>KB8UUZ</b>	Tom Parkinson
	Webmaster	<b>WG8X</b>	John Myers

**PCARS  
Active  
Volunteer  
Examiner  
Team  
Members**

<b>KB8UUZ</b>	Tom Parkinson
<b>AC8QG</b>	Nick Wagner
<b>AC8NT</b>	Jim Wilson
<b>N8QE</b>	Bob Hajdak
<b>KA8TOA</b>	Greg Ash
<b>WA8CCU</b>	Al Nagy
<b>N8PXW</b>	Jim Korenz
<b>K8IV</b>	Ed Polack
<b>N8AMY</b>	Amy Leggiero
<b>N8FUM</b>	Dan Torchia
<b>N8XTH</b>	Deron Boring
<b>WB8LCD</b>	Tom Sly
<b>W8PT</b>	Chuck Patellis
<b>W8GWI</b>	Dave Seckel



## THE RADIOGRAM

**PCARS Incorporated**  
Nov. 1, 2005

**First Meeting**  
Nov. 14, 2005



**ARRL Affiliation**  
April 20, 2006



**Special Service Club**  
March 22, 2010

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