



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

February 2023 - Volume 18 Number 2

Working Portable Outdoors



PCARS K8BF

The Club that puts the FUN in Ham Radio!



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Portage County Amateur Radio Service



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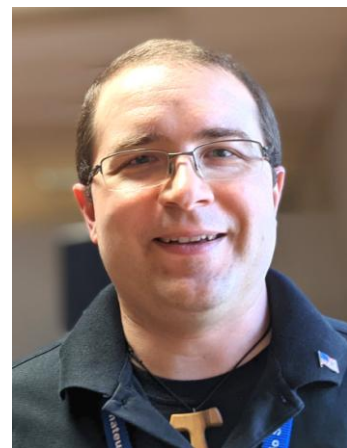


2018 Hamvention® Club of the Year

From the President



Nick, AC8QG
PCARS President



So, tell me again, where did January go? The time is flying, but the fun continues.

The Special Interest Groups hit the ground running in January. It's remarkable how the SIGs bring so many different specialties together. The best part is we're learning from each other and with each other. If you're missing the SIGs, you're missing out on some great stuff.



During the January Support Your Parks weekend, a bunch of us froze our butts off at Lake Milton, but we had a great time. The stew Brandon, KE8ARB made was excellent. Rick, KD8WCK contributed fresh, homemade bread. And, of course, there were a bunch of interesting portable radio and antenna setups to check out. I'm glad I braved the cold weather and joined in on the **"Big Fun."** Thank you to everyone who joined us, and especially to Brandon for coordinating everything!



Speaking of food and portable setups, Freeze Your Acorns Off 2023 is right around the corner. I already successfully tested a new

recipe for the food contest, but honestly, I can't wait to try everyone else's dishes. It'll be another great day of friends, radio, food, and even more **"Big Fun."** I hope to see you there!



over the coming weeks. I hope to hear lots of stories of ham radio fun!



From the Vice President



Jim, AC8NT
PCARS Vice President



We are working on getting up to speed in 2023. We plan to have a lot of fun and help build our hobby.

First, our initial build day will focus on building baluns, Ununs and RG-8X cables. We will select a date for the build at the February board meeting. Preregistration will be required. This will allow us to provide materials for each builder. Members that attend the build will only pay for the kits including all the parts necessary to complete the project. A QST will be sent with kit cost and registration details after the board meeting. Options will include 1:1 current Baluns; 4:1 current baluns and 9:1 Ununs for use with EFHW antennas. We will also have materials for coax cable construction. For this build we will be limiting cable made to RG-8X cables. Members will be required to provide their own coax if the cable is over 3 feet long and purchase a kit with the required connectors. We will be crimping the cable connectors using DXE crimp equipment.

Second, we are working on building at least one college club. It looks like our first college will be Mt. Union in Alliance. This club will be provided a complete station including transceiver, power supply, required digital interfaces, and antenna tuner. The university will provide a faculty advisor, club site, computer and facilities for an antenna. They will need at least five charter members. These charter members will need to obtain at least a general class license. The club needs to offer membership to any student or faculty member. PCARS will be working with the Akron/Canton chapter of IEEE on this project. Although this project will require work, it is exciting to reach out to a new group of potential hams and see our hobby grow. I will be asking for volunteers to assist in this project. We will be meeting with faculty and students February 1st to setup this project. This project will not require any funding from the club.

Third, our ARRL grant requires outreach to non-hams. Our plan is to work libraries in the area. Using library facilities and their email lists we hope to have these events well attended. We have three libraries already interested. We need to develop a schedule. The plan is to use the same setup that we have used at previous maker events. This should make setup easy and quick so we can spend the event talking to people and demonstrating our hobby. I need to admit we also have a lot of fun with these setups.

Winding up. I am really looking forward to FYAO this year. JC, KC8JC and I had a ball at FYAO November and will have even more this month. I am also getting setup to take part in POTA. It looks like a lot of fun and gives me a chance to get out, even in the winter.

Get on the air; introduce a non-ham to our hobby and most of all **HAVE FUN!**



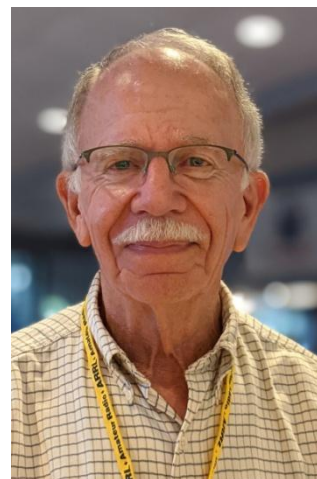
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From the Great Lakes Division Director



Dale, WA8EFK
ARRL Great Lakes Division Director



Greetings, welcome to "Dale's Tales" for February 2023

The Annual ARRL Board meeting was held from Jan 18 through the 22nd. Both Vice Director Scott N8SY and I attended. The meeting's official minutes are currently being prepared for approval and they will then be published. But here are some of the meeting highlights:

Among the items decided include some changes offered by the Programs & Services Committee to the Field Day rules. They are giving more emphasis to the **"Get on the Air"** stations by allowing a single op to make more than 20 contacts and evening out the points for various modes.

The Board gave approval of minor changes to the structure for how our 71 ARRL Sections are administered. The Board also reaffirmed the established guidelines for recognizing anniversaries of ARRL Affiliated clubs at 25 year intervals and established a Special Board Meeting to nationally acknowledge those clubs and their anniversaries by an open video broadcast to be called the **"Annual Awards Recognition Day"**.

ARRL National Conventions are held every two years, so looking ahead, we selected the next two events to host our upcoming National Conventions in 2024 and 2026. The Board authorized Headquarters staff to begin negotiations with the Dayton Amateur Radio Association to host the 2024 ARRL National Convention in conjunction with the 2024 Dayton Hamvention and to start similar negotiations with the Huntsville Amateur Radio Club to host the 2026 Convention at the Huntsville Hamfest.

In consideration of the value and benefits of Logbook of the World and the age of the current program, the ARRL Administration & Finance Committee provided a motion to begin the upgrade process for Logbook of the World through a new Radiosport Platform Committee.

The Ethics & Elections Committee submitted a number of proposals, the key of which is to insure that Board Members are familiar with their fiduciary responsibilities under Connecticut Law for non-profits, such as ARRL.

We elected new officers for the ARRL Foundation, and the ARRL Executive Committee. There was a proposal put forth to evaluate why many newly licensed hams do not become active on the air, and the Board formed a Survey Development Working Group to evaluate those underlying causes. From those and other actions will come an **"Amateur Radio Bootcamp"** with live interactive on-line videos. This package is proposed to include skill development, license training with exams and continuing education programs.

The long-awaited solar cycle 25 with the expected improvement in propagation on 10 and 6 meters, provides the opportunity to promote activity of Technician licensees on those bands. To that end we will offer a series of articles on QST, On the Air and other ARRL publications introducing new hams to DXing, contesting, and propagation on those bands.

Appointments to the four ARRL Standing committees are being made at this writing and will be announced soon. Those committees are Administrations and Finance, Programs and Services, Ethics & Elections and the Emergency Communications & Field Services Committee.



From the Great Lakes Division Vice Director



Scott, N8SY
ARRL Great Lakes Division Vice Director



Scott's Notes for February 2023

What a wild week that Dale and I had in Newington at the annual Board of Directors meeting recently! We both were locked in on the EC-FS Committee meeting that lasted into Thursday afternoon. The Board meeting started bright and early on Friday morning and it came to an end around noon on Saturday. We got a lot accomplished, and you'll be hearing about those accomplishments soon. Many of the items that we passed will benefit the membership and your club. Stay tuned for more information about the Board meeting.

I'm assuming that you are reading this column on Wednesday, February 1st, and as such, I just want to say that tomorrow is **Groundhog Day**... Yes, Groundhog Day! You know, the day we all get up before the crack of dawn and grab a little worthless varmint that does nothing but make a mess out of our garbage cans, yet we celebrate whether he can see his shadow when the sun rises. Here in Ohio, we have Buckeye Chuck doing the forecasting. He's been right only slightly more than wrong, but what the heck, it's fun just to see if that little critter really does predict it accurately or not. Personally, I think he's no better than a coin toss. But, what the heck it's something fun to do in the middle of winter. February is also known as the month for lovers, as that it's **Valentine's Day** on Tuesday, February 14th. Now, I don't know about you, but I've found the best way to keep my YL happy is to take her out for that special dinner, if not on Valentine's Day, somewhere close to it, especially if you want to drop the news that you've just purchased a very expensive, but absolutely necessary piece of ham equipment that you just couldn't live without. So, do yourself a favor, make dinner plans now for that special day!

Switching gears for a bit... We have a couple of great ARRL contests coming up this month, School Roundup on February 13th - 17th, and International DX / CW contest on February 18th - 19th. Hey if you're not a contester I get it, but you still can have some fun and make a kids' eyes light up if you do decide to participate in the School Roundup. Oh, and don't forget that we now have VOTA as well. You know, Volunteers On The Air! Just look around on the airwaves, you'll find them I'm sure, and if you catch Dale on, he's worth 225 points and I'm worth 200. That ain't hay guys, it's a lot of points and they'll add up quickly for sure, especially if you catch more than just Dale or I on.

Switching gears again... Do you have all of your NIMS courses completed yet? You know those troublesome little Incident Command courses that everyone has been nagging you about for several years now to get. The weather outside is frightful, and there's nothing good on TV to watch and the bands aren't cooperating for you to play radio much. So, isn't this the perfect time to get that training in before the weather and the bands start turning nice again? Trust me on this, take advantage of the spare time that you now have and get that all important training in now! All the classes that are suggested in the ARES Plan, including ICS-300 and 400 can be found on-line. Yes, you may have to look around a bit to find an open on-line class for ICS-300 and 400, but they are out there and just ready for you to get started on!

Oh, and don't forget your first aid, CPR and AED as well as those all-important "Stop the Bleed" classes too. They are sometimes the ones that we forget about the easiest and become the most important classes we could ever do. Don't be one of those folks that say, "I don't need this training because nothing ever happens here!" It does - and it will! The better that we are prepared, the better we will be at assisting our served agencies and even possibly our own families when that time comes, and like I said, it will come!

That is going to do it from here this month. Stay safe and **"Catch Me On The Air"!!!** Remember, I'm worth 200 points in for the **Volunteers On The Air** event...



From the ARRL Ohio Section Manager



Tom, WB8LCD
ARRL Ohio Section Manager



OH Section Manager / PCARS Past President & FUNMeister / PCARS Member

I can't say it enough – Welcome to 2023! I truly believe that this is going to be a year that pushes Amateur Radio into the future. We've taken a couple years off with the COVID scare, and it looks like it might just be something that stays with us, but we're learning to cope. Sunspot cycle 25 looks to be a good one, and for a lot of us older guys, it could be our last big BANG on the air. Look around, there's lots of good Ham Radio activities popping up and becoming popular. Get in on it! Make up for some of what we've missed.

Over the past two years I've had the opportunity to crisscross the state (AKA The Ohio Section) and I can enthusiastically say, When it comes to Ham Radio – Ohio's got it going on. I have had the opportunity, and the pleasure to meet a lot of really smart, interesting and involved people from all over. I've had a chance to meet with, in person and on ZOOM, with many Ohio Clubs. I've visited a whole bunch of Field Day sites. It's all been worth it.

Thinking about that I've challenged Ohio Section Hams to basically get out there and do the same thing. Don't let yourself get caught in a local bubble. Good people aren't just local. Good ideas aren't just local. Good clubs aren't just local. Good activities aren't just local. BIG FUN is out there!

But, I do belong to my local club, and while I like everything about PCARS, I've seen for myself that we aren't alone. So I've challenged Hams in Ohio to get out there and see how other Hams, clubs and activities are.

I just took off my Ohio Section hat and put on my PCARS hat.

Whether going as one or two, or even as a bigger group – get out there and see what other clubs are doing. Let them know it's a "visitation", we're not out there to steal their members, but we might like to borrow some of their ideas! And while you're there, be sure to invite them to a PCARS meeting / SIG / FYAO or whatever we got going on. In the process, you might find another club that you'd like to be a part of. Nothing *anywhere* says you can't belong to more than one club or group. Maybe some of them would like to join us, that's ok too. How about going out of your way to invite other clubs to participate with our SIGS? Maybe we could be the incubator that helps get them started in their own club.

I've always said that I believe that Amateur Radio is like a fraternity. If we all get together and work for a common good, then it doesn't matter if you stop in someplace that's outside of your "normal" location. Give it a try. I'm pretty sure that wherever you go you will be greeted and treated like a long lost friend! Let us know how it goes.



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 PCARS website,
announcements during 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.*

Feb 4th - VE Testing at club site - starts at 10 am

Feb 6th - PCARS Board Meeting at the club site & Zoom - 7 pm

Feb 11th - Freeze Your Acorns Off day - see flier

Feb 13th - PCARS Meeting - Kent American Legion & Zoom - 7 pm

First Tuesday - **Digital** - Moderator: Rick, K8CAV

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

Third Tuesday - **Antenna** - Moderator: Bob, N8QE

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

Fifth Tuesday - **Could Be Anything SIG** - Moderator: Rick, KD8WCK

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

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.

Portage County Amateur Radio Service



2018 Hamvention® Club of the Year

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** for sale at \$5.00 each.

Contact Greg for all of the details: Treasurer@portcars.org



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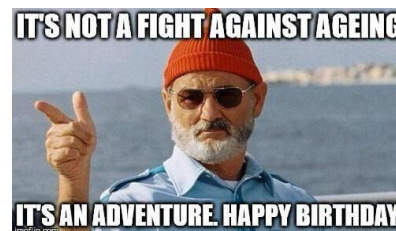


Happy Birthday PCARS Members

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

KE8REE	Gary
AG8GM	Ghislaine
KD8DFL	Ray
KC8LJY	Michael

AB8YK	James
W8HFX	David
N4IT	Carl
KC8YYS	James



FYAO 2023 - 18th Annual Club Event

Chuck, W8PT
FYAO Chairman



ATTENTION PCARS Members:

On Saturday, February 11th, you will have an opportunity to show everyone your expertise in setting up a portable station in the frigid WX and operating QRP style.

Yup...it's Freeze Your Acorns Off 2023 edition. This is the 18th annual FYAO - the longest running (never missed a year) activity that PCARS has done. Be part of our club history and be there for FYAO 2023 !!!!



As in previous years, the operating format will be a "contest" for all participants that set up a station and operate from the FYAO site. And as in years past, the host site is the shelter house at Fred Fuller Park in Kent. The winner will receive a certificate and his or her name and call sign will be added to the FYAO plaque displayed at the PCARS Club site.

We will also be having a contest within a contest..... the Best Recipe Cook-Off. So as many as you feel you are great cooks, whip up your best recipe of chili, mac & cheese, spicy meatballs, stew, peach cobbler, or whatever your heart desires and bring your dish to pass and have it judged by our "expert" panel of judges.

The contest begins at 1500 UTC (10 AM Local) and ends at 2000 UTC (3 PM Local). For those of you setting up a station, you are encouraged to come one hour earlier to pick your operating spot. Remember, this is a QRP Event so keep your foot warmers at home. (And you know I'm not talking about heavy socks.)

So come on out and set up a station, bring lots of food, invite your friends to see what this is all about, and just have a good time with your fellow HAMS. Most importantly, we're here to have BIG FUN so I hope to see a lot of you there.:

February 11, 2023 - see the flier in this newsletter



Jim, AC8NT

This month's topic: How can I use this stack of toroids I have collected?

This is the first in a series of articles discussing real problems that hams have had and how to solve them. We hope the solutions are going to be useful.



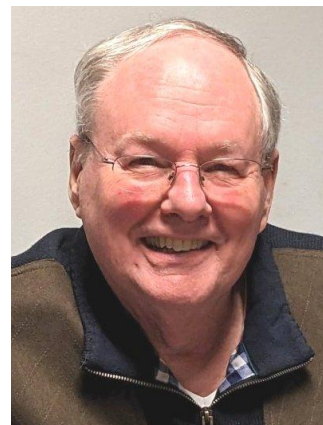
The first problem relates to that pile of toroids you have collected over the years. It seemed a great idea to buy that bag of mystery at that hamfest, but just exactly are what they. We know that the material used is an important parameter when we want to use them in a circuit or balun, but the material is seldom marked on the part, so how do find out if it is ferrite or powdered iron and if ferrite, what type of material was used in making the part.

I will be directing you to a nice video made by Fair-Rite Products that shows one method to determine the material, but first a few notes built on years of experience.

1. You will need a good LCR meter. You could use a scope and signal generator, but a LCR meter is much easier. There are many on the market in prices ranging from \$50 to \$5000. I know hams like inexpensive solutions (notice I didn't use the word cheap), so I have found a meter that does the job and, it turns out, is used in the video. It is the East Tester ET430 that costs about \$160. It measures inductance, capacitance, resistance and complex impedance and has a very nice set of features. If I see interest, maybe the club can buy one for members to use. It is incredibly useful.
2. You will need to measure the DC resistance of the material. Remember that most ferrite toroids are coated. You will need to get through the coating to make a measurement. I often drill a shallow hole in the toroid. It makes an easy place to put the probe. A 1/16" drill bit work well. The hole should just get through the coating. A good quality multimeter will work for the measurement.
3. When winding the toroid for the rest of the measurements, keep the leads as short as possible. This will make the measurements more accurate. Use PVC coated wire and the calculator provided by Fair-Rite will provide much better answers.
4. The measurements you get will not exactly match those in the Fair-Rite table. Pick the material that comes the closest to your measurements and it will work in your application 90% of the time.
5. After you have gone to the trouble of determining the material, put the less mysterious toroid in a small plastic bag marked with the inside diameter, outside diameter, height and material. It will save you much grief in the future.

As was said long ago by Ghoulardi (look it up on Wikipedia) "NOW THE MOVIE!!". Click the following link: <https://www.youtube.com/watch?v=Q95Vwk3kZok>

Please let me know if you liked this article and also if you have any problems you would like discussed.

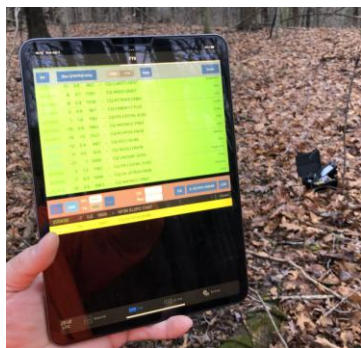


CQ POTA - CQ POTA - CQ POTA

Brandon, KE8ARB



It's been a while since I've written about activating a park because there hasn't been anything new or exciting to talk about... until now! Recently, I was made aware of



some new software written for the iPad. It allows IC-705 users to interface with the radio wirelessly, operate FT8, CW, and SSB, and get logging and visualization of where they are being heard. The application is called "SDR-Control for Icom." It is written by Marcus Roskosch and supports the IC-705, 7610, 9700, and R-8600. You might be wondering why this new software is so appealing when it's for such a small subset of radios and only works on an iPad. I will concede the point that this is for a fairly niche group of users. However here is where this application shines!

My typical setup for the IC-705 consists of a macbook, withoutwire, blackhole, wsjt-x and a lot of configuration and tweaks to make them all work properly. Even then, they only run okay. There are regular dropouts of the audio stream that require the entire stack to be restarted in order to recover. Reboot the radio, connect to it wirelessly, fire up without wire, start the tcp server, fire up the audio stream, and hope that wsjt-x connects successfully this time.

With SDR-Control, I connect to the radio over wifi, put in the credential for my IC-705 and I'm off to the races! I've ventured out into the field on 4 separate activations to try out this configuration. I had no real expectations except to see how it performed. My first observation is that this configuration is very stable. The entire time I operated, there were only 2 times that the radio disconnected from the iPad because I ventured too far away. The second thing I learned is how much of a burden a feed line is! It may sound silly, but when you're operating portable every piece of gear is something to go wrong, forget, or add weight to your pack. Now I just throw my K6ARK, 40m EFHW up in the tree, attach the radio to the feed point and go! I can go sit by a tree, in a pavilion, or in my chair without having to worry about how far away I am (within reason). One last general note is that the interface on the iPad feel very natural and fluent when controlling the radio. Inputs happen without any noticeable lag.



Lets talk about FT-8 for a few minutes. Love it or hate it, it is a very big part of our hobby. FT-8 decodes very well within SDR-Control and making QSO's is very easy. One thing I struggled with initially is that my TX frequency would follow the station I was trying to work. As an example, I would call CQ on 2300 and a station would reply on 400. My TX frequency would change to 400. This was slightly frustrating until I learned that it was user error. There is a checkmark in the application that allows you to set your TX frequency and it will stay put. You need to UNCHECK it from the small menu next to the RX, TX frequency boxes. Once this was figured out the QSO's started ROLLING in!

The next thing that I had to sort out was the logging. I configured SDR-Control to prompt me for logging when a QSO was complete, however there are some bugs with this. Upon looking closer,

there is a new release that claims it fixed some of these logging bugs. I'll have to try it out and report back! One thing I noted is that if I called CQ POTA with my call sign, it would not properly detect that the QSO was completed. I'm not sure if that was user error, or a bug but when I just called CQ with my callsign and grid it seems to be prompting for logging correctly.



The last note I had on SDR-Control is that I haven't found where you can control whether to send RRR, RR73, or a follow up 73 to the other station's 73. It seems that the message pattern is rigid. When I see my station go to transmit a 73 in reply to a 73, I simply uncheck the TX and log the QSO.

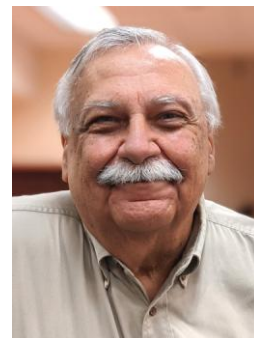


Anyhow, here are some pictures of being out in the parks! I hope you enjoy my findings and I hope you get out and operate portable!

Vermont QSO Party - February 4th

Chuck, W8PT

DX & Contest SIG Coordinator



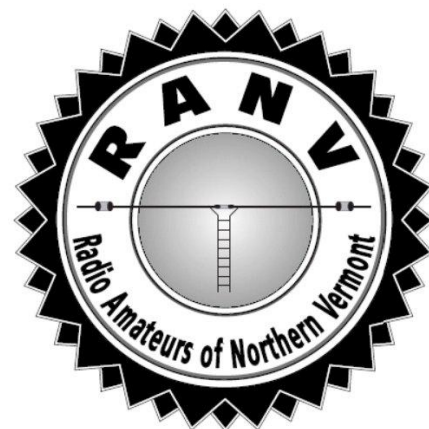
Vermont QSO Party February 4th at PCARS Club Site



Attention PCARS Contesters and Contest Newbies: On February 4th, the club site will be open to those who want to take part in the Vermont QSO Party.

We will gather at 10AM. We will be only using SSB and CW Modes since FT8 requires a logging program other than what we normally use for our contests.

Those who have not contested before or who are fairly new to the sport can participate at a more mild pace and get you contesting legs set under you. Come on out and participate.



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John, WG8X



Hocking Hills Winter Hike

Each year, I head to the Hocking Hills region in Southern Ohio for their annual Winter Hike. Most years, I home-base a few miles east, at Lake Hope SP. But this year, wanting to try someplace, I rented a Sherman cabin at Tar Hollow State Park (K-1996). Tar Hollow SP is SW of the Hocking county region in the Tar Hollow State Forest (K-5452), making it a Two-fer. The North Country National Scenic trail also runs through the park, making it a Three-fer, but I did not pursue that one.



To add to the fun, the 3rd weekend of January is also the POTA “Support Your Parks” (SYP) weekend. There’s always a lot of activity on the air during those events, which are run 4 times yearly. This time was no different.

Tar Hollow is one of those locations where there’s no cell coverage to spot oneself. There was a location about 3 miles from camp where I could get enough of a cell signal for texting. That’s



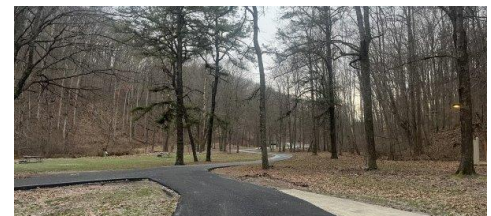
where it’s great to have friends willing to help. I texted my park information to Tony, KD8BBK, in Marlboro, and Fred, KW4FM in Roanoke, and by the time I got back to camp, it was off to the races. First on FT8 while I prepared dinner, then on QRP CW.



The campground at Tar Hollow is at the bottom of a narrow ravine, with hills rising almost 100 feet on either side. Try as I might, I could not get more than a handful of contacts on 20 Meters. 40 Meters was a different story, however. Signals were good. I even worked my first ever XE2 on 40 Meters.



I made around 240 contacts from /tar hollow, and enjoyed the solitude! I had the entire campground to myself for the entire weekend.



In addition to Tar Hollow (K-1996/5452), I also made it to Hocking Hills SP (K-1958), Hocking State Forest (K-5442), Conkle’s Hollow State Nature Preserve (K-9400), and Ross Lake Wilderness area (K-9497). Three of those locations were new parks for me, bringing my needed parks in Ohio down to 99.

My plan was to hit several more spots in Central Ohio on the way home Sunday, but the weather had other ideas. Looking at the radar, I decided to head east, out of the path of the snow. When you are planning a January Rove in Ohio, you roll the dice, and you take your chances. There will be other trips.

The setup at camp was a FT-891, and a 40-10 EFHW. On Friday, I did run my Xiegu G106. It is a very capable 5W QRP rig. I planned to do more with it, but it appears that my mic (w/headphone



adaptor) for the G106 is laying in the woods Tummond's State Nature Preserve (K-9440) in Mantua, where I last activated on December 4th. So, I guess I'll need to get building on a replacement.

So the total for the weekend was 268 contacts from 5 different locations, using everything from End Fed Half Wave antennas, to the motorized ATAS-120A from Yaesu. I did FT8, CW, and even some SSB.

So that's it for this trip. Till next time



Words from our Treasurer

Greg, KA8TOA
PCARS Treasurer

Hi Everyone

Dues: Reminder - yearly Dues run from Dec. 1, 2022 to Nov. 30, 2023. If you did not renew by the renewal date, then you will have to pay the \$5 new member fee.

Regular Member \$25.00 plus \$5.00 for new member

Senior Member \$20.00 plus \$5.00 for new member

Family Member \$15.00 plus \$5.00 for new member

Above Numbers are based on a yearly rate, there is a 6 month rate after a half year for new members.



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!!

Groups Find or Create a Group <https://groups.io/g/PCARS> Help Log In

Home Messages Hashtags

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

PCARS@groups.io

Group Description
This is the discussion group of The Portage County Amateur Radio Service, Inc. This site is for the members, by the members of PCARS.

Group Information
59 Members
1 Topic, Last Post: Feb 21
Started on Feb 21
Feed

Group Settings
All subscribers can post to the group.
Posts to this group require approval from the moderators.
Posts from new users require approval from the moderators.
Messages are set to reply to group.
Subscriptions to this group do not require approval from the moderators.
Archives are visible to anyone.
Wiki is visible to subscribers only.
Members can edit their posts.
Members can set their subscriptions to no email.

Join This Group or Log In If You Are Already A Member

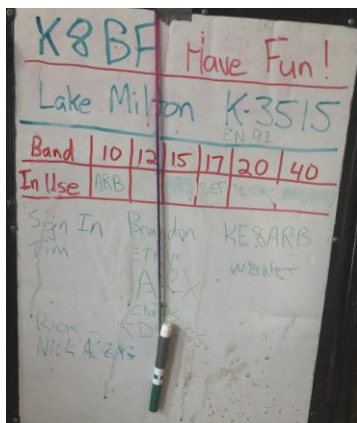
Support Your Parks Weekend



Brandon, KE8ARB



PCARS - K8BF in POTA at Lake Milton State Park



K8BF participated in the POTA, Support Your Parks Weekend by activating Lake Milton State Park, K-3515. This was a great opportunity for portable operations to setup their antenna's, get on the air, and spend a great afternoon together. There were a total of 4 stations setup with 4 operators. The configuration would make you chuckle as there were two operators on one station, and one operator on two! That's how we had big fun, so that's how it went!

Gene, W8NET operated a center loaded vertical with his Yaesu 991a and ran FT8 for the activation. Tim, W8GPN took turns operating that station with Gene. They managed to keep their

fingers somewhat warm by rotating operators. This would pay off well for them because they ended up logging 37 QSO's for K8BF!



Rick, KD8WCK also setup a center loaded vertical with a Xiegu G90 transceiver. He was running on battery power and his setup performed well in the cold. One thing that is very fun about Rick's operation is that he was operating Olivia! He was able to log 3 QSO's for the club that day! Olivia is a fun mode and it was really cool to see him work those stations.



I was running most of the day on my 20m delta loop. The loop performed very well on my QDX running at 5 watts. I was able to log 27 QSO's while operating QRP on a small battery! Later in the day I

jumped on the ic-705 and used the EFHW to let Gene work 20m for a while. Later in the day, I jumped back on the delta loop with the ic-705 and did some SSB. It's great to do voice while at the park, but unfortunately I was very cold and my speech was starting to slur! Even still I managed to get 13 sideband contacts including several park-to-parks! One of the reasons we operate portable using different configurations is so that we learn our deployments, software, and stay fluent operating them.

Unfortunately this activation proved to be a learning experience for me because I did not configure either of my logs



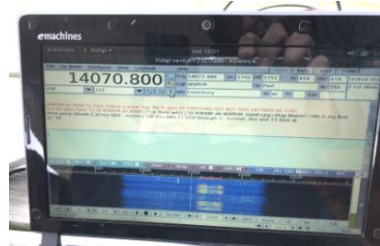
correctly to get K8BF credit on any of my QSO's. I guess we'll just have to go back out to the park and do it right next time!

I would be remiss if I didn't mention the family and friends who also braved the cold weather and support us in the hobby we love! The Mercer's were out, including bailey bailey bailey, the 10 year old golden retriever. And our very own Nick, AC8QG and family! Thank you for joining us and making sure our installations were up to snuff, and durability tested. Activating parks is fun, but it's all the better when you have folks like you making the day special.



A HUGE thank you to everyone who helped make this activation happen. Many people volunteered and helped out without even being asked. That's how we ended up with fresh bread, donuts and coffee to go with our beef stew!

Keep your eyes peeled for our next activation!



Ohio ARES® 2023 Simplex Contest Results

Bret, KD8SCL

Ohio Section Emergency Coordinator



The 2023 ARES® Simplex Contest is in the books and the results are in. I am pleased with the results, but at the same time a little disappointed that there weren't more participants in the contest. But I understand with scheduling conflicts and personal reasons, family comes first. Maybe next year.

This contest is a great way to test your equipment for proper operations and what your equipment is capable of, be sure to map out your QSO's to check your longest distance within your county and surrounding counties. This information can be important for your county in the event of an actual emergency in your county and you need to get information out. Think about setting up an exercise for your local group to test your simplex capabilities in your county.

Thank you to those of you that took the time out of your busy schedule to participate in the contest and your comments.

Here are the results so far:

Participants: 35	ARES Leaders: 11	Counties: 19	QSO Points: 2,364
Contacted Counties: 214	Hours of Operation: 133	ARES Leader Contacts: 73	EOC Contacts: 75
APRS Ops: 7	Portable Ops: 5	Rover Ops: 8	Total QSO Points: 24,600

Top 10 points:

1	KD8EZI, Medina Co. 4,769	5	N8ESG, Rover. 1,792	9	KE8QEP, Portage Co. 800
2	W8Z, Rover. 2,966	6	WD8LEI, Wood Co. 1,099	10	KD8TJB, Geauga Co. 78
3	N8XC, Preble Co. 2,774	7	WO3X, Summit Co. 1,043		
4	W8MAL, Rover. 2,200	8	AB8M, Cuyahoga Co. 826		

Thanks again for everyone's support and contribution to the Ohio Section ARES® and amateur radio, your contribution is a valuable asset to the section.



Contest University - 2023

Contest University

Tim, K3LR
Contest University Chairman



Registration is now open for the 2023 Dayton Contest University (CTU) to be held all day on Thursday, May 18, 2023, at the Hope Hotel in Dayton, Ohio. This is the day before Hamvention opens in Xenia, Ohio. CTU 2022 Dayton was amazing - we expect 2023 CTU to be even better!

Eight different countries have hosted CTUs over the past 14 years: USA, Australia, Russia, Germany, Italy, England, Brazil, and Finland. Over 8,500 students have attended these CTUs with more than 100 CTU professors sharing their contesting experiences.

2023 will be the 14th year for CTU Dayton. To give you an idea of the quality of the CTU content and activities, you can see videos and PDF presentations from past CTUs on their website.

The 2023 CTU Dayton course outline will be posted once all of the courses have been confirmed. Check the website for updates. Each presentation is carefully prepared with up-to-date information. The CTU professors are experienced testers and will share their knowledge.

There are scholarships (registration fee paid) available for CTU through a grant from the Northern California DX Foundation (NCDXF) for students who are up to 25 years old. Please use the "contact us" button on the CTU website to get more information. Also, 2023 student registration information is on the CTU website.

As we did last year, if you want to sign up for the 2023 Dayton CTU and you have given a talk (or will give one by Hamvention 2023) about amateur radio to a ham radio club, Hamfest, or group by May 18, 2023, you qualify for a \$10 discount on your registration fee. Please choose the "Registration with club talk discount" option to get the discount. Spreading the word about amateur radio is lots of fun and can save you money at CTU!

Thanks to all of the CTU sponsors, including Icom America, DX Engineering, the Northern California DX Foundation, The YASME Foundation, the Radio Club of America, and CQ Magazine for making CTU possible.

Thanks to Teri Grizer, K8MNJ; Amy Leggiero, N8AMY and Jerry Haislip, K1SO for all of their help with CTU. Special thanks to Scott Neader, KA9FOX, from qth.com for hosting and constructing the CTU headquarters website.

See you in Dayton at CTU 2023 and Happy New Year.

The screenshot shows the Contest University website. At the top, there's a navigation bar with links: Home, 2023 Course Outline, 2023 Professor Bios, Files, Videos, and Contact Us. The main header features the 'Contest University' logo and the event details: 'Hope Hotel, Thurs, May 18, 2023, Wright Patterson AFB, OH USA'. Below this, a paragraph states: 'Contest University will be held on Thursday May 18, 2023, from 7:00am to 5:00pm, at the Hope Hotel in Dayton, Ohio. This is the day before the Dayton Hamvention officially opens. Don't miss this rare opportunity to gain knowledge that may take you years of practice, trial and error or lost time to learn otherwise. Get the edge to improve your scores and put your station in the winners circle today!'. A URL 'https://www.hopehotel.com' is provided. A prominent red button says 'Register Now' with the URL 'https://www.contestuniversity.com/registration/'. Below that, it says 'Thanks to KA9FOX and QTH.com for donating the web design and web hosting services to CTU!' and 'Host up to 4 different Web Sites for Just \$4.95/mo.' with the QTH.com logo. On the right side, there's a 'Premier Sponsors' section with logos for DX Engineering and ICOM, and an 'Additional Sponsors' section with logos for YASME Foundation, Northern California DX Foundation, The Radio Club of America, QTH.com, and Dayton Hamvention.



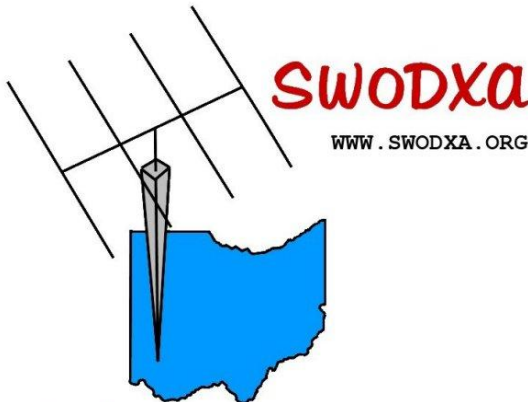
South West DX Dinner - Hamvention® 2023

Bill, AJ8B

South West Ohio DX Association



The (SWODXA) is pleased to announce that we will again sponsor the DX Dinner, held in conjunction with the 2023 Dayton Hamvention. This, our 38th annual dinner, will be Friday, May 19th, 2023, at the University of Dayton Marriott, 1414 S. Patterson Blvd., Dayton, OH 45409.



SouthWest Ohio DX Association

We will have another fantastic array of great prizes at the Dinner and the Forum on Saturday!

There will be a cash bar starting at 5:30 p.m., with dinner served at 7:00. Following the event, there will be a separate room and cash bar available for more fellowship. This is an excellent opportunity to meet new hams and to renew old acquaintances as well as to learn about past DXpeditions and those in the planning stages.

The Marriott is very accommodating to a group our size. The dining room is very large and located on the ground floor so there are no steps and there is ample free, on-site parking.

This dinner is always well attended by some of the most avid DXers in the world. Previous dinners had over 400 attendees! As in the past, there will be some major door prizes, and there is always great anticipation as to who will be named the "DXpedition of the Year" as well as who will be inducted in to the CQ DX Hall of Fame. The keynote speaker will be Adrian Ciuperca, KO8SCA.

Tickets can be purchased on the SWODXA Events website. More information can be found on the club website: <https://www.swodxa.org/> Program details and a list of the prizes will be on the website as they become available, and updates will be sent out regularly via Twitter. Follow us on Twitter - @SWODXA



Contest Dinner - Hamvention® 2023

Contest Dinner

29th Annual Dayton Contest Dinner is May 20, 2023

The North Coast Contesters will host the 29th Annual Dayton Contest Dinner at the Hope Hotel, located at Wright-Patterson Air Force Base in Dayton, Ohio, on Saturday night, May 20, 2023, at 6:30 PM.

Master of Ceremonies will be John Dorr, K1AR, and the 2023 Keynote Speaker is Bryant Rascoll, KG5HVO. Rascoll, of Montgomery, Alabama, was the 2018 recipient of the Bill Pasternak Memorial Amateur Radio Newline Young Ham of the Year Award. He is also known as a competitive tester who is able to send CW over 60 WPM.

The 2023 CQ Contest Hall of Fame inductees will also be announced during the 2023 Dayton Contest Dinner.

Tickets are on sale now. <https://www.contestdinner.com/>



Top Band Dinner - Hamvention® 2023



Tim, K3LR
Top Band Dinner Chairman

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 Annual Dayton TopBand dinner. Dinner reservations are now available for 2023!

Friday evening May 19, 2023 at the Hope Hotel. 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.

I am proud to announce that our featured speaker will be Jon, AA1K. AA1K has worked 329 DX countries on 160! In addition to AA1K we will pass the mic so everyone can introduce themselves. We will also have the exciting TopBand DXCC count down.

The 2023 Dayton TopBand Dinner details are here: <http://topbanddinner.com> Scroll down to make your reservations. Thanks to Teri, K8MNJ for coordinating and organizing the TopBand Dinner.

If you enjoy having fun on the 160 meter band, the Annual Top Band Dinner is for you! Hope to see you at the 2023 Dayton TopBand Dinner



Orlando HamCation Presents Its 2023 Award Winners

Just ahead of its big event in Florida, Orlando HamCation® has announced the 2023 HamCation Award winners.

Ken Lyons, KN4MDJ, is a **2023 Carole Perry Educator of the Year Award winner**. (Photo courtesy of HamCation.)

Ken Lyons, KN4MDJ, and Jim Storms, AB8YK, are the 2023 recipients of the **Carole Perry Educator of the Year Award**. The award is given to individuals who have made outstanding contributions to educating and advancing youth in amateur radio. It was first awarded at HamCation 2019 to its namesake, Carole Perry, WB2MGP, in honor of her work as an educator teaching students about ham radio.



Ken Lyons, KN4MDJ (left), is a 2023 Carole Perry Educator of the Year Award winner. Photo courtesy of HamCation.

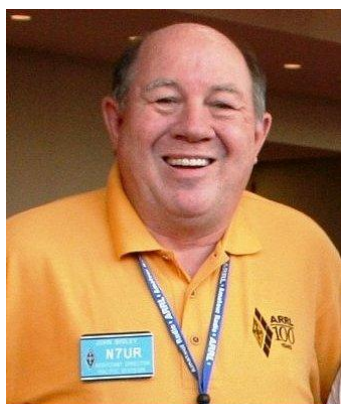
Lyons is an ARRL Southeastern Division Assistant Director for Radio Scouting, and is the trustee of WB4SA, the Central Florida Council's Radio Scouting program, for activities and opportunities in both the Boy Scout and Girl Scout programs covered by Division 2. The program includes 30,000 scouts in nine counties. Lyons has been licensed since 2018 and now holds an Amateur Extra-class license. On receiving his award Lyons said, "I was not expecting the award but I'm honored to receive it."

Jim Storms, AB8YK, is a 2023 Carole Perry Educator of the Year Award winner. (Photo courtesy of HamCation.) Storms is a co-founder and a current team leader for the Dave Kalter Memorial Youth DX Adventure. He co-founded the Youth DX Adventure in 2010 with Dave Kalter, KB8OCP, (SK). He has

been licensed since 2007 and holds an Amateur Extra-class license. He is also an ARRL Member and General Chairman of 2023 Dayton Hamvention®.



Jim Storms, AB8YK, is a 2023 Carole Perry Educator of the Year Award winner. Photo courtesy of HamCation.



John Bigley, N7UR, is the 2023 Gordon West Ambassador of the Year Award winner. Photo courtesy of HamCation.

John Bigley, N7UR, is the 2023 HamCation recipient of the **Gordon West Ambassador of the Year Award**. This is the first time the award has been presented. The award honors its namesake, Gordon West, WB6NOA, in honor of his contributions and inspirations to the amateur radio community. John Bigley, N7UR, is the 2023 Gordon West Ambassador of the Year Award winner. (Photo courtesy of HamCation.)

Bigley is the ARRL Nevada Section Manager and was chosen as the 2014 ARRL Pacific Division Ham of the Year. He has been licensed since 2003 and holds an Amateur Extra-class license. Bigley's reaction to receiving the award was, "Surprised? Absolutely!"

Orlando HamCation has been sponsored by the Orlando Amateur Radio Club since 1946, and is held annually on the second weekend of February. HamCation has grown to become the second largest hamfest in the world. 2023 HamCation is February 10 - 12 and will host the ARRL Southeastern Division Convention at the Central Florida Fairgrounds and Expo Park in Orlando. Visit www.hamcation.com for more information.



QSO Today Virtual Ham Expo - March 25-26



THE QSO TODAY VIRTUAL HAM EXPO MARCH 25-26, 2023 WITH THE THEME "NEW AMATEUR RADIO LICENSE - NOW WHAT?"

The amateur radio hobby is alive and well and coming to the QSO Today Virtual Ham Expo on March 25-26th, 2023 with the theme: “*New amateur radio license - now what?*”. While the general public may not be aware that the hobby of amateur radio is not only alive and well, it is bigger and better than it ever was. Many new amateur radio licensees may not know what opportunities for fun and growth exist in the hobby, once they leave their exam with their new license in hand. The goal of the Expo is to get more ham radio licensees on the air and involved in the hobby.

This 6th QSO Today Virtual Ham Expo will showcase, through a weekend of presentations with live video questions and answers, the wide range of ham radio activities, technology, and communities that exist, not only in North America, but around the world. “Amateur Radio is now like the traditional circus of old, with the traditional communications activities in the bigtop’s three rings, but now with a midway of a thousand tents, each containing a unique and interesting ham radio activity”, said Eric Guth, 4Z1UG, QSO Today podcaster and creator of the Expo.



The Expo is presented on the vFairs virtual convention platform that creates virtual spaces and lounges for attendee interaction, a presentation auditorium with multiple simultaneous speaker tracks, and opportunities to interact through video, audio, and text chat with sponsors and exhibitors. Every new edition of the Expo features new interactive features to enhance participation and educational benefit to amateur radio operators who want to try something new, or learn more about something in the hobby that interests them. This time the Expo will introduce match-making between attendees who need amateur radio mentoring and potential mentors who match skills, expertise, and the location of hams needing help.

The QSO Today Virtual Ham Expo will return on Friday Evening, March 24th at 6:00 PM PDT, that’s Pacific Daylight Time, with the show’s opening and includes live shows by distinguished ham radio podcasters and YouTubers. Interactive spaces and lounges are open for a continuous 48 hours over the weekend. Presentations begin at 8:00 AM PDT, Saturday morning, March 25th, 2023. After the weekend, all of the presentations are available for 30 days to ticket holders. Tickets are on sale now at a cost of \$15.00 each at <https://qsotoday.vfairs.com/en/registration-form>

For more information, go to the QSO Today Virtual Ham Expo website at: <https://qsotodayhamexpo.com>.



FOR SALE: Cushcraft A50-5S 5 Element, 6 Meter beam. This has been on my tower for about 5 years. I'm changing up the antenna system, and have no use for this beam. It is



due to come down on November 26th. \$75.00. **Channel Master AR-303 Light Duty Rotator** and controller combo. I bought it used, and took it to Field Day a couple times to turn my 6-Meter Moxon. It would be good for a small VHF beam, or TV antenna. This is a mast mount rotor. Comes with approximately 50' of 3-conductor control wire. \$75.00



AR-40 Light Duty Rotator and controller combo. Comes with the bottom mast mount bracket. Can handle up to 3.5 sq ft wind load when mounted inside of tower. Working, but I replaced it a few weeks ago while the tower was on the ground. The 5-conductor control wire is not included. \$100.00

Contact: John Myers, WG8X at john@wg8x.net, or 330-936-5021 [04/23]

Available FREE to anyone who owns a Kenwood TS-2000 Transceiver: Kenwood TS-2000, non-functioning. The X53-3910-00 Control Unit board is defective and unfortunately, no longer available. The transceiver was fully functional prior to the connector on the Control Unit board going bad, so all other boards and parts can be used as spares for your TS-2000. This transceiver is generously being made available by Bob, K8AAB. Bob would prefer that it be made available free, to any PCARS member who owns a TS-2000.

Contact Rick K8CAV at k8cav.coms@gmail.com [04/23]

FOR SALE: Palstar LA-1K solid-state amplifier - \$3000, **Palstar HF-Auto** tuner - \$1200 if sold together - \$4000. **Collins S-Line (R/E) 75S-3C** receiver 32S-3A transmitter 312B-4 speaker console / wattmeter, 516F-2 P.S. all restored with **(INRAD filters)**. - \$3000, **Swan 600 Custom receiver & 600T transmitter (rare), digital readout** - \$1000, **QRP A.M. Transceiver** for 75 / 80 meters Class-E modulation - \$100, **RIGOL DM3068** service bench DVM - \$400, **Palstar speaker SP-30B** (black) - \$75, **Stridsberg MCA108M Receiver 8-port Multi-Coupler** - \$200, **Bird 4362 (Ham-mate)** wattmeter 140-180 MHz - \$100, **Drake W-4 wattmeter** - \$100, **Drake WV-4 wattmeter (20 to 200 MHz)** - \$100 with WV-4 for spare parts, **Autek WM-1 dual reading wattmeter** - \$150, **Autek RF-5 VHF/UHF antenna analyzer** - \$50, **Elecraft dual reading LED W-2 watt meters: (various configurations with remote couplers for HF & VHF/UHF)** - \$250 with one coupler, \$350 with 2 couplers, **Yaesu FT-2600 2-meter F.M.** - \$100. All above are working including manuals, service notes, tubes, microphones, accessories, etc.

Contact: Jeff, WA8SAJ - home phone at (440) 951-6406 [04/23]

FOR SALE: From the estate of Neil Gerren, N8IL **Icom 2820** vhf/uhf mobile Asking \$150 **Siglent SDS 1202Y-E** O-Scope Asking \$220 **Elecraft P3 Panadaptor** Asking \$550 **Elecraft K-Pod** Asking \$150 **Elecraft KPA 500 Amp** Asking \$1500 **LDG AT 1000Pro** autotuner Asking \$200 **MURCH UT-2000 Tuner** Asking \$50 (needs work) **KMoon FY6800** Signal generator Asking \$100 **HP 34401A** Digital Multi-meter Asking \$200 **PS 30SWii** 30 amp Power supply Asking \$50 **Kenwood PS53** Power Supply Asking \$80 **Telepost LP-100A** Digital Vector RF Wattmeter with **LP-100 RF Sensor** Asking \$300 **Telepost LP-700** Digital Station Monitor with **LPC-501** directional coupler Asking \$650 **Alpha 9500 (Beast)** Amp Asking \$3800

Contact: Tom, WB8LCD - at (330) 554-4650 or email at tomsly29@gmail.com [04/23]

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: [04/23] indicates the ad will run until the end of April 2023.

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



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.



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03/12/2023 - Northern Ohio Amateur Radio Society Winter Hamfest - Location: Lorain County Community College - 1005 N. Abbe Rd. - Elyria, OH 44035 Website: <http://winterhamfest@noars.net> - Contact: Carl Rimmer, W8KRF - 3821 West 152nd Street Cleveland, OH 44111- Phone: 216-256-9624 - Email: w8krf@w8krf.net

=====

03/19/2023 - Toledo Mobile Radio Association Hamfest & Computer Fair - Location: Owens Community College - 30335 Oregon Road, Perrysburg, OH. Website: <http://www.tmrahamradio.org> Public Contact: Brian Harrington , WD8MXR - 4463 Holly Hill Drive Toledo, OH 43614 - Phone: 419-385-56524 - Email: wd8mxr@gmail.com

=====

04/15/2023 - Cuyahoga Falls Amateur Radio Club 67th Hamfest - Location: Emidio & Sons Expo Center - 48 E. Bath Road - Cuyahoga Falls, OH 44221- Website: <http://www.cfarc.org> - Contact: Bruce Ferry , AK8B - 2907 Lee Rd. Silver Lake, OH 44224 - Phone: 330-790-1680 - Email: hamfest2023@cfarc.org

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04/22/2023 - Tusco Amateur Radio Club Hamfest, Electronics, and Computer Show - Location: Tuscarawas County Fair Grounds - 259 S. Tuscarawas Ave. - Dover, OH 44622 - Website: <http://www.w8zx.net> - Contact: Rick Dingman, KE8URA - 303 N. 5th St. Dennison, OH 44621 - Phone: 330-934-0575 - Email: stick553311@gmail.com

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05/19, 20, 21/2023 - Dayton Hamvention® - Location: Greene County Fairgrounds and Expo Center - 120 Fairgrounds Road - Xenia, OH 45385 - Website: <http://Hamvention.org> - Sponsor: Dayton Amateur Radio Association - Public Contact: Jim Gifford , KD8APT - PO Box 964 Dayton, OH 45401 - Phone: 937-276-6930 - Email: Media@hamvention.org

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07/08/2023 - Mansfield Trunkfest 2023 - Location: Richland Co. Fairgrounds - 740 N. Home Road - Mansfield, OH 44901 - Website: <http://iarc.club> - Sponsor: Intercity Amateur Radio Club - Public Contact: Danny Bailey , W8DLB - 104 East Thrush Ave. Apt. H Crestline, OH 44827 - Phone: 567-899-3881 - Email: w8dlb60@gmail.com

=====

08/20/2023 - Warren Amateur Radio Association Tailgate Swap Meet - Location: Mosquito Lake State Park - 1439 Wilson Sharpsville Rd (state route 305) - Cortland, OH 44410 - Website: <http://w8vtd.org> - Contact: Larry Oliver, KD8LYX - PO Box 809 Warren, OH 44482 - Phone: 330-553-9579 - Email: WARAW8VTD@gmail.com

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The Buckeye Chuck Show

Thursday, February 2, 2023



Flex Net

Rick, K8CAV

Flex Net Coordinator

Next FLEX Net will be Wednesday February 8th at 8:00 PM

The next PCARS Flex Net will meet on Wednesday February 8th at 8:00 PM. This will be a **digital-only** net, opening on **14.085 MHz** +/- QRM USB, in mode **Olivia 8-500**.

A presentation showing how to conduct digital-only net operations can be found at <https://groups.io/g/PCARS/files/Flex-Net-Digital-Operations.pdf> in PCARS groups.IO. I hope to hear you on the net!



DX & Contesting Special Interest Group

Chuck, W8PT

DX & Contesting SIG Coordinator

Next SIG will be Tuesday February 28th at 7:00 PM

On January 24th we held our DX/Contesting Special Interest Group meeting at the Club site at 7PM. Just a reminder that this meeting is held every 4th Tuesday of the month.

There were 10 members present either in person or by ZOOM. The primary discussion topics were: The 2023 K8BF Contest Schedule and possible programs for our meetings.

We picked several contests in which K8BF will participate for this year and also several contests where we might participate if we have enough interest. I will be issuing a separate qst announcement that will list the for sure contests and those that are possibilities.

We had a discussion regarding how the folks who run the California QSO Party score their contest. I mentioned that I noticed that there were at least three different score totals for K8BF's entry. It seems that the CAQSOP group may have a contest within a contest going, which we do not know about and is not defined by their published rules. It was finally decided that I would contact the CAQSOP people and discuss the situation to get clarification on this situation. We may be missing out on points and we want to make sure that we are getting all the credit that we are due.

As far as programs that would take place during our meetings, here is the list of suggestions:

1. Continued Contest training probably during state QSO Parties since they are much slower paced.
2. A program on various Contesting Techniques to enhance our individual efforts when operating from our own QTHs.
3. A program on setting up a "Little Pistol" contest station.
4. An introduction of the use and abuse of Amplifiers.
5. A presentation on the FT8 Mode of operation and how to use FT8 during a contest.
6. A program to train those who are using N3FJP logging software.

We also discussed the idea of opening up the club site when there are important and rare DXpeditions on the air and providing our members the opportunity to work the DX using our well equipped station.

So there we are. The meeting covered several areas and we all felt that it was very productive.

Until next month, 73.



Antenna Special Interest Group

Bob, N8QE
Digital SIG Coordinator



Next SIG will be Tuesday February 21st at 7:00 PM

At the January Antenna SIG we discussed the upcoming Balun build at the club site with options to build either a 1:1, 4:1, or 9:1 Balun, and improving the height of the 20 Meter Field Day antenna.

The Antenna SIG meetings are open to all PCARS members and guests. All ham radio operators or anyone interested in Amateur Radio are also welcome to attend.

We will be discussing all aspects of antenna design, construction, test equipment, and experimentation. Everyone is welcome to join the discussion, and talk about their projects with the group.

The next meeting of the PCARS Antenna Special Interest Group will be held February 21, 2023 at 7:00 PM. We will be in-person at the PCARS club site and on Zoom.

Join Zoom Meeting

<https://us02web.zoom.us/j/87220356586?pwd=czgvdzRlcjVBT2hPSkVIZU1VaU84Zz09>

Meeting ID: 872 2035 6586

Passcode: PCARS2022

Digital Special Interest Group

Rick, K8CAV
Digital SIG Coordinator



Next SIG will be Tuesday February 7th at 7:00 PM

The next Digital Special Interest Group meeting will take place on Tuesday February 7th at 7:00 PM at the PCARS club site in Ravenna.

This month's meeting will be open-forum for any topic regarding digital communications. As always, we will have time available to answer any questions or help with any issues you may be having with digital communications.

The meeting will also take place via Zoom at the link below. I hope to see you there.

Join Zoom Meeting:

<https://us02web.zoom.us/j/88355094567?pwd=ZzRvd1hmQWNaYlZEcGF0dVhuNlNiQT09>

Meeting ID: 883 5509 4567

Passcode: PCARS2022



Portable Ops Special Interest Group

John, WG8X

Portable Ops SIG Coordinator

Next SIG will be Tuesday February 14th at 7:00 PM

Wow, what a month it's been! The activity for the Winter Support Your Parks Weekend was great! Did you get out to Lake Milton to have some big fun on the 21st? I was not there, but I understand that we had a good crowd.

We'll be doing a recap of the weekend at our next Portable Ops Sig. Also, we still need to pick a date for the next POTA outing.

Bring your show & tell items, and any questions you might have. Questions are always welcome! As always, we're open for subjects for upcoming SIG sessions. Please let me know if you have an idea. So make sure to come out for the SIG this month either in person, or via Zoom.

We'll be meeting on February 14th, at 7PM in person at the club site (705 Oakwood St, Ravenna) or via Zoom.

Join the Zoom Meeting

<https://us02web.zoom.us/j/89732195744?pwd=cldtZmxMcMfQqQndhQWtJN0s2NUNnUT09>

Meeting ID: 897 3219 5744

Passcode: PCARS2022



Could Be Anything Special Interest Group

Rick, KD8WCK

Could Be Anything SIG Coordinator

Next SIG will be Tuesday May 30th at 7:00 PM

The inaugural "Could Be Anything SIG Night" was held January 31st at the club site.

This month we had a follow-up to Rick, K8CAV's Digital SIG session on Winlink 2000 basics, with a hands-on session to get your Raspberry Pi or other Linux computer set up and configured for the Winlink 2000 email system.

Winlink is a hybrid message-passing system that uses the Internet when it is available but has the ability to fall back to RF when the Internet is inaccessible.

Turnout was good and we hope to have some interesting and different meeting topics in the future. Please feel free to join us on the 5th Tuesday of each month.



Georgia State Parks On The Air

Georgia State Parks On the Air

The [Georgia State Parks On the Air](#) will be held **April 1 - 2, 2023**. ARRL member Claude Ray, AC4SH, said this is the first time that all of Georgia's 50 state parks have been involved.

"The objective is to encourage ham radio operators to visit Georgia State Parks and experience the fun of Parks on the Air activations," said Ray. "This is a fun contest only, and the rules are minimal, the scoring is simple, and the main award is simply the fun of getting on the air."

The entire process is largely based on the honor system, although logs of top activators will be cross-checked. The contest period begins at 0800 EDT, April 1, 2023, through 2000 EDT, April 2, 2023, and operating hours are subject to park rules and times.

Participants with the top three scores in each of the five categories will receive a certificate indicating the award:

- Georgia Activator - Individual
- Georgia Activator - Club
- In-Georgia Hunter (individual or club)
- Out of State Hunter (individual of club)
- Georgia ARES® Club

Every station participating in the event and submitting a log will, upon request, receive a Certificate of Participation indicating the number of parks contacted. Ray added, "There are 47 parks that already have at least one ham planning to activate on the April 1 - 2, 2023, weekend."

See the complete rules at gaparks.org/rules.



A groundhog is not so very scary
Except once every February;
Then his little shadow holds
An early Spring, or lots more cold.

Happy
Groundhog
Day!



Internet Archive grows to over over 51,000 Items

Internet Archive's [Digital Library of Amateur Radio & Communications](#) is quickly growing to become an important archive of radio's past and present. The collection has blossomed to well over 51,000 items related to ham radio, shortwave listening, scanners, and related communications. The [newest additions](#) include books, journals and magazines, newsletters, and archives of early Internet discussion lists.

More than 3,300 books and magazines are now available via controlled digital lending in the [DLARC lending library](#). These materials, including hundreds of magazine and journal issues including [Popular Electronics](#), [RF Design](#), and [General Radio Experimenter](#), can be borrowed for online or offline reading, one reader at a time, by anyone with a free Internet Archive account. DLARC has also added amateur radio magazines [QST](#) from 1912-1961, [Radio & Television News](#) from 1919-1959, and [Radio](#) magazine from 1920-1947.

Nearly 1,300 episodes of [The RAIN Report](#), an audio program that aired news and interviews relevant to the amateur radio community from 1985-2019, are now available, including hundreds of lost episodes, thanks to the help of the program's producer, Hap Holly. DLARC has also added the 700-episode library of the [National Radio Club DX Audio Service](#), which reported radio-related news from 1985 through 2015.

The archive of radio-related podcasts now includes [QSO Today](#), [Linux in the Ham Shack](#), [RAIN Hamcast](#), [Amateur Logic](#), and others.

Radio clubs are utilizing the DLARC archive to provide long-term backup of content and increase their visibility to new audiences. The Milwaukee Radio Amateurs' Club, one of the oldest ham radio groups, is uploading its [entire historical archive](#), an unparalleled collection of newsletters, correspondence, newspaper clippings, and meeting minutes documenting the group's history.



Other group newsletters include British Amateur Television Club's [CQ-TV](#), the [CWops Solid Copy](#) newsletter for Morse code enthusiasts, Boulder Amateur Television Club [TV Repeater's REPEATER](#), and Scope, the newsletter of the [Palomar Amateur Radio Club](#). The DLARC library has also added newsletters from radio clubs around the world, including the [Dutch Amateur Radio Union](#), the [Chester & District Radio Society](#) (England), and the defunct [Canadian Amateur Radio Operators' Association](#).

DLARC now archives papers and presentation slides from [41 years of TAPR conferences](#), including the ARRL and TAPR Digital Communications Conference, and the Computer Networking Conference. The collection is accessible like never before, full-text searchable and with detailed metadata. In addition, TAPR's [Packet Status Register](#) newsletter, published since 1982, is also archived.

DLARC has also begun archiving amateur radio email discussion lists, so far making tens of thousands of discussion threads available and searchable - going as far back as the late 1980s - for the first time in decades.



The selection includes [INFO-HAMS Digest](#), [Boatanchors](#) (a mailing list for fans of vacuum tube radios), [Packet-Radio Digest](#), and [Ham-Digital Digest](#).

DLARC is funded by a significant grant from Amateur Radio Digital Communications ([ARDC](#)) to create a digital library that documents, preserves, and provides open access to the history of this community.

The Digital Library of Amateur Radio & Communications invites radio clubs and individuals to submit collections of material, whether they are already in digital format or not. Anyone with material to contribute, questions about the project, or interest in creating a digital library for other professional communities, please contact:

Kay Savetz, K6KJN - Program Manager, Special Collections - kay@archive.org -
Mastodon: dlarc@mastodon.radio

From: <https://blog.archive.org/>

W8NET On The Air from St. Croix - Feb 6-10

Gene, W8NET

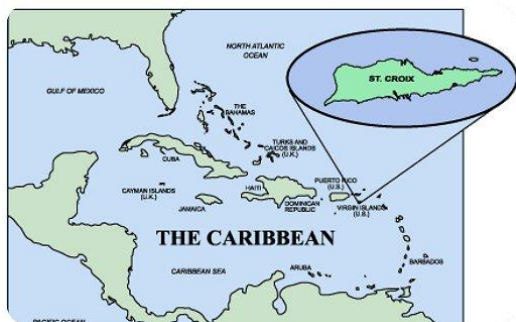
PCARS member Gene Marsh, W8NET, will be going to St. Croix in February



I wanted to make sure that we were all aware of this and that we would be looking for him on the air. Here is the announcement from last November just to remind all of us.

Hi everyone!

We are going to St. Croix, USVI, from 2/6 to 2/10. The plan is for being on the 3905CC nets for two nights. I will email more details as the trip is getting close. I will also have one of my clubs (probably **WW8WWW**), and special event **N8V/KP2**. Also club call **KP2JR**.



My new POTA antenna works VERY WELL on 40m and above. I will be testing it on 75m shortly (after our expected 6"+ rain from Nicole).

I will try to check in on 40mE, 75mE and 40mL. [KM4P, WF4H, KI7PM and/or K7QHU, please aware for possible relay]. I believe I will have Internet.

Also, if you are interested: I will be on FT8 in the day time (for 2 days only). We will have a vehicle, and maybe will activate a couple of POTA parks.

73,
Gene W8NET (**W8NET/KP2**)



Young Ham Lends a Hand Contest - 2023

Carole Perry, WB2MGP
Director RCA, Youth Activities



We want to reward a young ham who has volunteered to help an elderly person, a military person, his or her community somehow, or a young ham actively involved with recruiting other young people into ham radio.

There's no red tape; it's just me and my RCA Youth Activities evaluating the application forms. You will smile to know that we have had high caliber and terrific young hams who get nominated every year.

I am accepting nominees for this contest to encourage volunteerism in our young hams. Forms may be submitted up until April 1st. The winner is usually announced at the Hamvention® Youth Forum. A \$100 stipend is awarded to the winner.

This is sponsored by RCA and QCWA. Please contact me with any questions. All forms should be submitted to: wb2mgp@gmail.com

=====

Young Ham Lends a Hand Contest

Carole Perry WB2MGP wb2mgp@gmail.com

Please submit the following requests for information about your nominee for this year's contest.

Information about your nominee:

Name and call sign

Age

Address

Home Number and Cell number

Please fill in YOUR name, relationship to the candidate and contact info.

Please describe reasons why this nominee is deserving of the award that looks for a young ham who gives back to the community by participating and helping in local events, assisting the elderly, assisting military personnel, or is instrumental in recruitment and/or training of more young hams.

=====

Youth Activities Program

The Youth Activities program is chaired by RCA Director Carole Perry WB2MGP and has Richard Somers, Ernie Blair, Stan Reubenstein, Gordon West and Charles Kirmuss as committee members.

A major event for the committee is to moderate and to sponsor the annual Dayton Youth Forum where RCA Young Achievers, age 18 and below, give presentations highlighting their technical abilities and enjoyment of radio.

The RCA Young Achiever is a youngster 18 and below who has demonstrated technical excellence and creativity in wireless communications. We are always interested in receiving nominations for these talented young people. Please contact Carole at wb2mgp@gmail.com to nominate someone as a Dayton Hamvention® presenter or as a student deserving the RCA Young Achiever award.

We are also always interested in supporting schools, scout groups, and museums that incorporate radio/technology in their programs. Support can be in the form of books, equipment, or curriculum. Please contact Carole at wb2mgp@gmail.com for further information.

The Youth Activities members travel across the country to speak at radio conventions, to moderate Youth Forums, and to vet large organizations enlisting our help in motivating and supporting young hams and in introducing wireless technology to school curriculum.

Tax deductible donations specifically to RCA Youth Activities can be made through the Richard G. Somers Youth Scholarship Fund. Please contact Carole at wb2mgp@gmail.com for further information.

Youth DX Adventure - 2023 - PJ2Y



The Dave Kalter Youth DX Adventure announces their 2023 trip

The Dave Kalter Youth DX Adventure announces their 2023 trip to Curacao. Applications are now being accepted for July 13-18, 2023.

The Caribbean Contest Consortium and Geoff Howard have once again agreed to let us use the PJ2T site for our 2023 trip. The support they give us is greatly appreciated. A special thanks go to Uli, DL8OBQ for being our on site representative. His travel and use of his vacation time to help the youth is appreciated and allows us to make the trip. We will be once again applying for the call sign of PJ2Y.

Youth ages 12-17 are encouraged to apply. Applications now being accepted and the forms are available at qsl.net/n6jrl.

A parent must accompany the child. If you have questions you may email Jim Storms at jimab8yk@hotmail.com for more information.

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.

NET STATS for 3rd and 4th Quarters 2022

3rd Quarter 13 weeks - 268 total check ins. 20 average weekly check ins.

4th Quarter 12 weeks - 205 total check ins. 17 average weekly check ins.

I am in desperate need for some net operators to run the Thursday night nets. It really is not that hard and it is fun, along with good training if you are ever needed for emergencies. I know we have been low on check-ins for the past couple of months. The commitment is only for once a month and this club is worth that. If anyone has ideas for the club, please do not hesitate to speak out at meetings or on nets or call or write. We appreciate the input. For now 73 and have a great December.

February	
2	KA8TOA
9	N8WCP
16	KD8WCK
23	N8QE

March	
2	
9	
16	
23	
30	



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

Charlie the Tuner's HF High-Lites

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



Greetings DXers

Charlie the Tuner's DX High-Lites – February 2023

Well, the recent WX events takes top place in the news. I can hardly keep up with the predictions from one day to the next. We have 50F temps and then 25 F temps the next day. We go from a sunny day to the next day having a snow storm. All the while, everyone is trying to stay healthy. For those of you who have to work outside in these constantly changing weather patterns, my hat's off to you.

Meanwhile, the bands have been going wild with sunspot numbers on the rise. Openings on 6 and 2 meters have been noticed and 10 and 15 meters have been very crowded.

Let's take a look at what has been announced for DX for the next month or two.

Thanks to NJ1Q & W1AW, NG3K & ADXO, W3UR & The Daily DX, W4VQ, WB6RSE, W8HC, K8YSE, W8GEX & 60m DX News, AJ9C, DL1SBF, DL5ON & The DX News Letter, DXNews.com, DX-World.Net, F6AJA & Les Nouvelles DX, I1JQJ/IK1ADH & 425 DX News, OH2BH, Sixitalia Weekly, and VA3RJ & ICPO 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.

February...

7X, ALGERIA. During the 20th edition of the World Wide Antarctic Activity Week (AAW), February 19-26, 7X2GK, Kamel, will be using special callsign 7T22ANT.

9U, Burundi. Elvira, IV3FSG will be active as 9U5R from Bujumbura, Burundi on 4-27 February. She will be joining Vladimir, OK2WX, who will be QRV as 9U4WX [425DXN 1651]. Usually, Elvira operates SSB and digital modes. QSL 9U5R direct to IK2DUW; her log will be uploaded to Club Log.

C5, THE GAMBIA. Andre, ON7YK is QRV as C5YK from Bijilo until February 24, 2023. Activity is in his spare time on 20 to 10 meters using SSB, RTTY, FT8, and FT4. QSL direct to home call.

HK0, PROVIDENCIA. Francisco, HK3EA as 5J01EA and Gabriel, W4GDV (HK3MKQ) as 5K0VT will be active from Providencia Island (NA-049) from 27 February to 5 March. They will operate SSB and maybe some FT8 on 80, 40, 20, 17, 15, 12 and 10 meters. QSL both callsigns via LoTW, eQSL or Direct to W4GDV (PO Box 1431, Greer SC 29652, USA); see qrz.com under 5J01EA or 5K0VT for their QSLing policy.

HP, PANAMA. Members of the Panama Canal Amateur Radio Association (HP1PCR) will be active as 3E30PCARA on 1-28 February to celebrate the 30th anniversary since their club's formation (4 February 1993). QSL direct to PCARA, Apartado Postal 0843-03204, Ciudad de Panama, Republic of Panama.

JD1/O, OGASAWARA ISLANDS. A group of Japanese operators are heading to **Komagari, Chichijima** for a 2m, 70cm and 23cm EME operation during the second week of February. If you are into EME operations, complete details can be found at <https://www.qrz.com/db/JD1YCC>

S79, SEYCHELLES. Look for Peter, G4HSO to be active from the Seychelles as S79/G4HSO during February 1-21, 2023. QRV on HF bands, CW. QSL via LoTW.

V4, ST. KITTS. Once again John, W5JON will be active as V47JA from St. Kitts (NA- 104) from 31 January to 15

February. He will operate SSB and FT8 on the HF bands and 6 meters. QSL via LoTW, or direct only to W5JON.

VK, AUSTRALIA. Adam VK2YK, Chris VK5FR, Ivan VK5HS, Andy VK5LA, Marija VK5MAZ and Paul VK5PAS will be active as VK5TIL from **Troubridge Island (OC- 139)** on 7-9 Feb. Operating CW, SSB and digital modes on various bands. QSL via M0OXO's OQRS, LoTW and eQSL.

YJ, VANUATU. Bob, W7YAQ and Al, K7AR will be active as YJ0A from Efate (OC-035), Vanuatu on 9-23 February, including an entry in the CQ WPX RTTY Contest (11-12 February) and the ARRL DX CW Contest (18-19 February). QSL via Club Log's OQRS, LoTW, or via K7AR.

VK9W, WILLIS ISLAND. Sands, VU2WXW is QRV as VK9WX while working at the Meteorology Weather Station here until the end of April, 2023. Activity of late has been on 20 meters using SSB around 1300 to 1400z. QSL via operator's instructions

March...

HR, HONDURAS. Gerard, F2JD is once again operating as HR5/call until March 13. Operation on HF using CW, SSB and digi. QSL via home call, direct or buro.

JA, JAPAN. Special event station 8J1H90T is QRV until March 31, 2023 to celebrate the 90th anniversary of the city of Hiratsuka. QSL via bureau.

JA, JAPAN. Take, JI3DST will be active again from Miyakojima (AS-079) until 7 March. He will operate SSB and CW as JS6RRR, JI3DST/6, JJ5RBH/6 and JR8YLY/6, as well as JI3DST/p, JJ5RBH/p and JR8YLY/p on FT8. The QSOs will be made available for Club Log and LoTW Matching on the IOTA website.

TR8, GABON. Roland, F8EN ex CN8EM, FO8BV, 3C3CR, TR50R will be active again as TR8CR from Gabon, until 15 March 2023. He will operate on 30 - 10m, CW. Recent DX Spots TR8CR QSL via F6AJA.

VK9W, WILLIS IS. Sands, VU2WXW is operating as VK9WX until end April. <https://www.qrz.com/db/VK9WX>

VP2M, MONTSEERRAT. Thaire, W2APF is once again QRV as VP2MDX until March 31. Operation from 80 to 10 meter using CW and SSB. QSL via LoTW or via home call.

That's it for now. Please, do yourself and all us other HAMS and get on the air. Preserve our frequencies for Amateur Radio.

Until next month, W8PT (aka Charlie the Tuner) saying 73 for now.

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

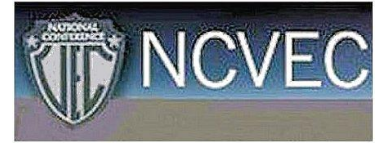
white patch is in Red, Black and Blue. Cost for a patch is only \$2.00

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

General Class Test Pool Changes July 1st



New General Question Pool Released for Ham Radio Licensing Effective July 1, 2023

The National Conference of Volunteer Examiner Coordinators' ([NCVEC](#)) Question Pool Committee ([QPC](#)) has released the [2023 - 2027 General Class FCC Element 3 Syllabus and Question Pool](#) to the public. The new General Question Pool is effective July 1, 2023, through June 30, 2027.

The new pool incorporates some significant changes compared to the 2019 - 2023 version. Its 432 questions were modified slightly to improve wording and to replace distractors; 51 new questions were generated, and 73 questions were eliminated. This resulted in a reduction of 22 questions, bringing the total number of questions in the pool down from 454. The level of difficulty of questions is more balanced, and the techniques and practices addressed have been updated.

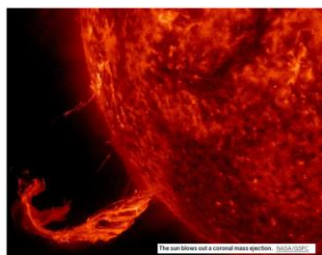
The [pool](#) is available as a Microsoft Word document and PDF. The single graphic required for the new General Question Pool is available within the documents, or separately as PDF and JPG file formats.

"The newly revised pool must be used for General-class license exams starting July 1, 2023," said ARRL VEC Manager Maria Somma, AB1FM, who is a member of the NCVEC Question Pool Committee. "New test designs will be available to [ARRL Volunteer Examiners](#) on that date. The ARRL VEC will supply its officially appointed, field-stocked VE teams with new General exam booklet designs around mid-June."



General class examination candidates preparing for their exams using the 9th edition of [The General Class License Manual](#), and/or the 6th edition of [ARRL's General Q & A](#) are encouraged to test by, or before, June 30, 2023. New editions of ARRL licensing publications will be available in May, for exams taken on, or after, July 1, 2023.





How to stay safe in an extreme solar flare, where the sun bombards Earth with radiation and magnetic havoc.

<https://www.businessinsider.com/solar-flare-coronal-eruption-geomagnetic-storm-effects-safety>

REMEMBERING THE CRYSTAL RADIO

Many kids built a crystal radio in the 50's and 60's. It came as a kit from Allied Radio in Chicago for \$2.50. They spent many an hour down in their basement with headphones clamped on their ears, carefully tuning the variable capacitor to pull in nearby and distant stations. Some were so faint that my young imagination thought they might be hearing secret messages.



[https://www.nutsvolts.com/magazine/article/remembering-the-crystal-radio?utm_medium=email&_hsmi=238269002&_hsenc=p2ANqtz--xZ-](https://www.nutsvolts.com/magazine/article/remembering-the-crystal-radio?utm_medium=email&_hsmi=238269002&_hsenc=p2ANqtz--xZ-a8GuMDO7rd_yaUkYue9lzE99pBrgughSjALf3M7DI0_ft7MFt6ZLsBlw5IGne1sTpnMdHmjsoFAHn69xAttwYtQ&utm_content=238269002&utm_source=hs_email)

[a8GuMDO7rd_yaUkYue9lzE99pBrgughSjALf3M7DI0_ft7MFt6ZLsBlw5IGne1sTpnMdHmjsoFAHn69xAttwYtQ&utm_content=238269002&utm_source=hs_email](https://www.nutsvolts.com/magazine/article/remembering-the-crystal-radio?utm_medium=email&_hsmi=238269002&_hsenc=p2ANqtz--xZ-a8GuMDO7rd_yaUkYue9lzE99pBrgughSjALf3M7DI0_ft7MFt6ZLsBlw5IGne1sTpnMdHmjsoFAHn69xAttwYtQ&utm_content=238269002&utm_source=hs_email)

Here is a recent video of ham radio today from **CBS news Sunday** that shows Dave (N9WQ) near Milwaukee talking about ham radio.



Dave's a collector of old ham gear and races cars as you can check out on his qrz page.

Ham radio operators keep classic communication style alive - YouTube <https://www.youtube.com/watch?v=ineRc-XCG4Q>

Lots of Codes besides 73 and 88 can be found in the "**92 Code list**".

<https://www.basictables.com/amateur-radio/amateur-radio-codes>

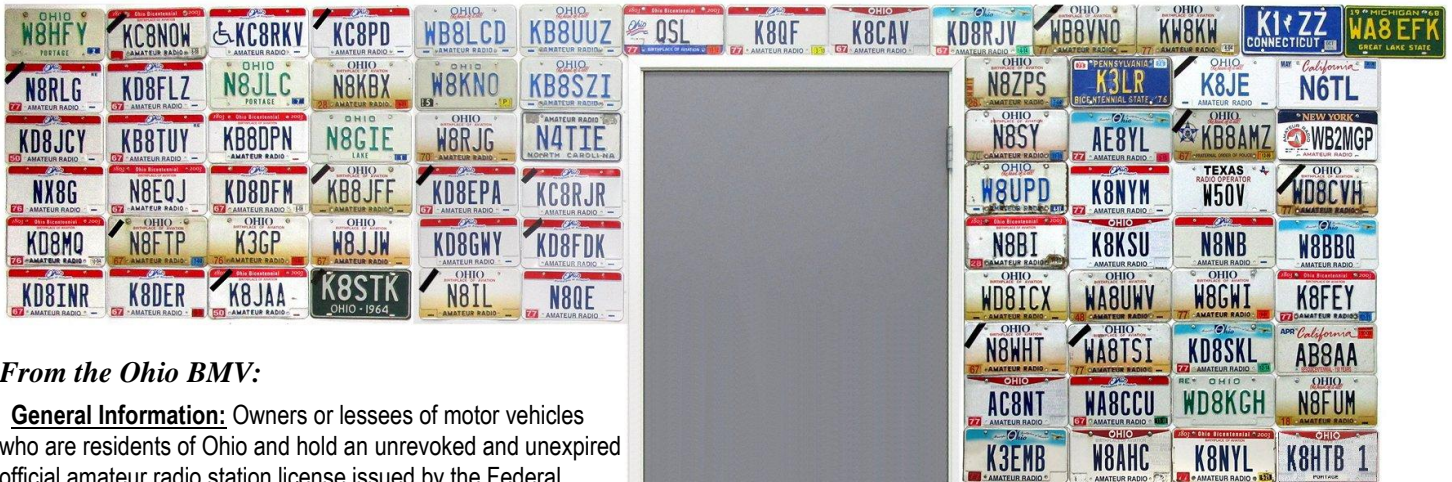
Other code lists, too.

Basic Tables		92 Code	
1	Wait a minute.	25	Busy on another wire.
2	Very important.	26	Put on ground wire.
3	What time is it?	27	Priority, very important.
4	Where shall I go ahead?	28	Do you get my writing?
5	Anything? (Have you business for me?)	29	Private, deliver in sealed envelope.
6	I am ready.	30	No more - the end.
7	Are you ready?	31	Form 31 train order.
8	Close your key, stop breaking.	32	
9	Priority business. Wire Chief's call.	33	
0	~ this circuit closed.		

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 76 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 place to put all kinds of videos that are about PCARS for the world to see.



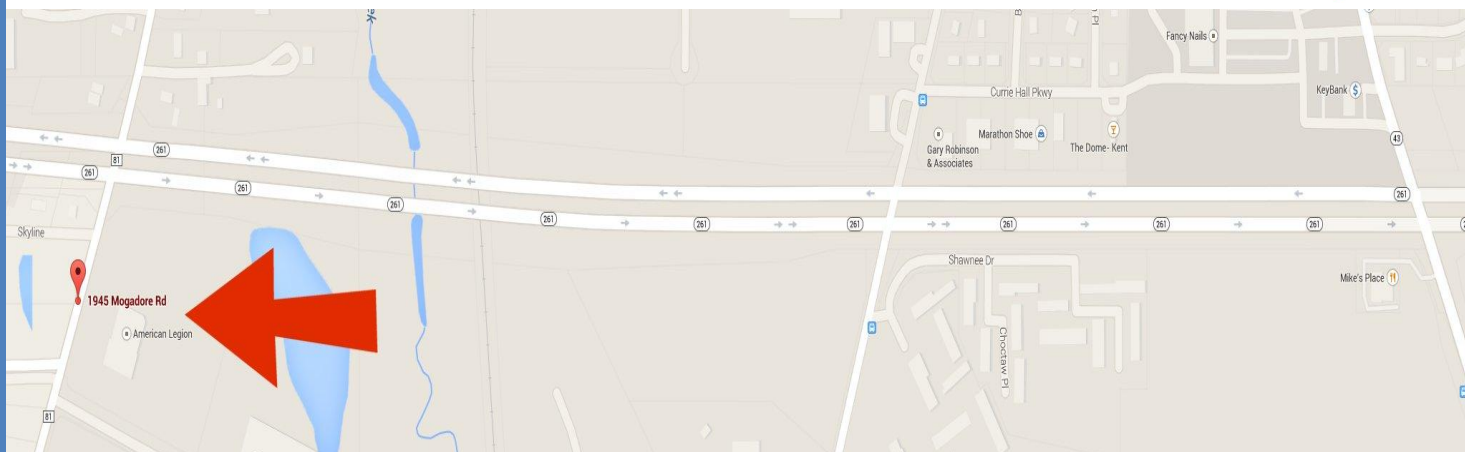
PCARS Meetings

The Portage County Amateur Radio Service (PCARS) in-person meetings are held the **2nd 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.

PCARS VE Testing Information & News

Tom, KB8UUZ
PCARS VE Team Liaison



We will have a VE Test Session February 4th at the club site starting at 10 am.

Masks are encouraged.

Future Dates:

April 1st, June 3rd, August 5th, October 7th, December 2nd

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

If you have any questions, don't hesitate to contact me at 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.

QUICK FACTS

- **Yes**, PCARS VE test Sessions are held at the club site in Ravenna starting at 10 am - see schedule.
- **Walk-Ins are accepted.** Would appreciate an email to KB8UUZ@GMAIL.COM if you plan on attending.
- You **MUST** have an **FRN Number** (SSNs no longer accepted)
- You **MUST** have a **valid e-mail address** for the FCC to be able to contact you.
- **Picture ID required**
- **Original and Copy of your valid FCC license** and originals of any applicable CSCE
- **Taking Technician Test?** - You **MUST** apply for your FRN and get it prior to testing.
- **VE fee is \$15** - Cash or Check payable to "ARRL-VEC"
- **Under 18 years old?** VE Fee is \$5 per the ARRL reduced CE fee Youth Program
- **FCC License Fee \$35** - payable after FCC send you a link. **DOES NOT APPLY** to upgrades.
- **Under 18?** ARRL will reimburse you the \$35 FCC Fee.

Okay - now all the Details:

- **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 (see below)
- 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

Candidates **younger than 18-years old will pay a reduced exam session fee of \$5** to the ARRL VEC VE team when taking an exam. Proper identification must be presented to and verified by the team, per the procedures for all exam candidates (what to bring to an exam session). The \$5 fee is for all candidates under the age of 18 regardless of the exam level taken.

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 re-instate 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/core/>

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 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

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. **April 4, 2022** - 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 an amateur radio 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 took effect on April 19, 2022.

VECs and Volunteer Examiner (VE) teams will not have to collect the \$35 fee at exam sessions. New 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.

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.

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

The ARRL Youth Licensing Grant Program, in effect since April 19, 2022, will cover the one-time \$35 application fee for new amateur radio license candidates younger than 18 years old for tests administered under the ARRL Volunteer Examiner Coordinator (VEC) program. "We are thrilled that we are able to provide this opportunity to our youth candidates," said ARRL VEC Manager Maria Somma, AB1FM.

The \$35 Federal Communications Commission (FCC) application fee will be reimbursed after the ARRL VEC receives the completed reimbursement form and after the new license has been issued. The reimbursement check will be mailed to the fee payer. Also, candidates younger than 18 years old would pay a reduced exam session fee of \$5 to the ARRL VEC team at the time of the exam. The \$5 fee is for all candidates under the age of 18, regardless of the exam level taken. Proof of under 18 status is required at the session.

The ARRL Board approved the Youth Licensing Grant Program at its July 2021 meeting in Hartford, Connecticut, expanding on the scope of the original motion proposed by ARRL Southeastern Division Director Mickey Baker, N4MB.

The Board believes the recruitment and training of young amateur radio operators is a necessary and proper mission of the ARRL and subsidization of the \$35 fee will reduce the number of new amateurs that would otherwise be lost from these groups. Initially the new program would serve up to 1,000 new license applicants under 18 years old. The program length is indefinite; it may be renewed or terminated by the Administration and Finance Committee or by the Board of Directors.

Visit the ARRL website for the program instructions and reimbursement form at www.arrl.org/youth-licensing-grant-program.

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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 Registration: <https://apps.fcc.gov/cores/userLogin.do>

The Federal Communications Commission (FCC) retired the [Legacy version](#) of its **COMmission REGistration System (CORES)** on July 15, 2022. CORES is the FCC's public-facing database that enables and tracks certain types of FCC and FCC applicant actions, including amateur radio applications and licenses. Its implementation has enabled routine amateur applications and licenses to be issued overnight instead of over weeks, as was the case with earlier methods. The [updated version of CORES](#) is now available. (<https://apps.fcc.gov/cores/userLogin.do>)

=====

July 2022 - From: Maria Somma, AB1FM - VEC Manager - ARRL

INFORMATION ABOUT THE FCC APPLICATION FEE AND VEC FILED APPLICATIONS

The FCC application fee was implemented on April 19, 2022. Here's what we know so far...

1. MAKE SURE EXAMINEES UNDERSTAND THEY MUST PAY WITHIN 10 DAYS.

Examinees do NOT have to wait for the email from the FCC to pay the fee. As soon as an the application file number is issued by the FCC, they can pay by logging into the CORES Payer FRN System (easier to use but only temporarily available) or the CORES FRN Registration system (CORES - Login).

Application File Number search using an FRN: [FCC Application File Number Search](#)

CORES payment system background information and instructions: [Information](#).

CORES step-by-step payment instructions: [FCC Application Fee Instructions](#)

2. The FCC help center stated there is a known issue with individuals paying the \$35 application fee via a smart phone or tablet. This is not a new issue and they haven't been able to help troubleshoot the issue at the support center. Encourage candidates to login and pay the FCC application fee from a computer.

3. Examinees should NOT amend any applications that a VEC submits on their behalf, especially NEW license applications. Amending VEC filed applications will cause the application to be dismissed without action in the FCC system and potentially require the applicant to pay another \$35 fee. If there is a minor mistake on the application, either call us and we can correct and resubmit the application, or the individual can pay the fee, be issued the call sign, and then log back in and make corrections.

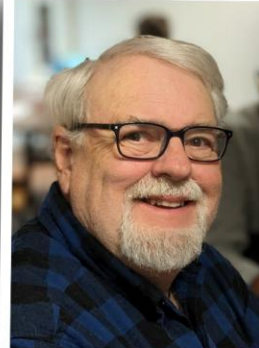
4. Individuals should review their application BEFORE paying the fee. If there is a major error on the application, such as the licensee's name or license class earned is incorrect, or the answer to the felony question is wrong, DO NOT PAY the fee. Call the VEC immediately.

5. When in doubt, call the VEC! (ARRL) Even if you think you shouldn't bother us with your question, call us anyway.

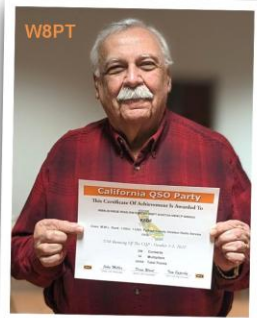
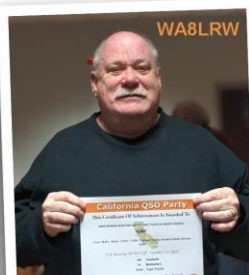
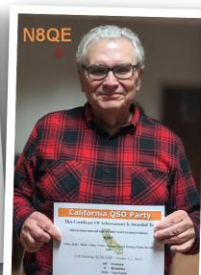
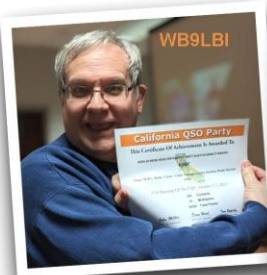
Photos from the January PCARS Meeting



PCARS
January 9, 2023



PCARS
Jan 9, 2023



Portage County Amateur Radio Service, Inc.



PCARS - K8BF

18th Annual

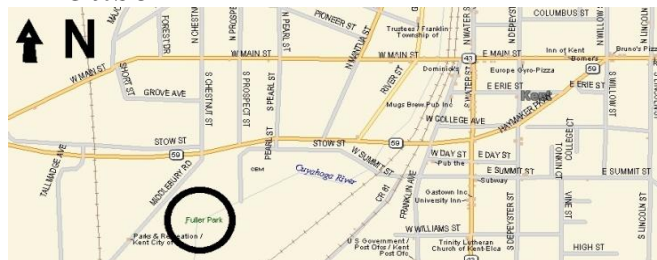
"Freeze Your Acorns Off"
(FYAO) Special Event Station



Where: *Fred Fuller Park - 497 Middlebury Rd., Kent, Oh*
at the Roy Smith Shelter House

When: *Saturday - Feb. 11, 2023*
Set up: 9 am

Operating Time: *10 am - 3 pm EST*



We will be active on CW, Digital & Phone in the General areas of the 6, 10, 15, 20, 40 and 80 meter bands (Repeater & Echolink on the K8BF echo link node for a certificate) and anything else we can get working. Club Call Sign **K8BF** for a certificate. Other participating stations will be using their own callsign/FYAO, or calling "CQ FYAO" (only stations at the Freeze Your Acorns Off event should use the /FYAO designator). Yes, we'll be braving the cold weather of North Eastern Ohio to set up QRP stations using portable power and antennas.



So, from the comfort of your warm radio shack - give us a contact while we're out freezing. We'll need all the contacts we can make to help keep us warm. Your support will be very much appreciated!

QSL for Card and Certificate via QRZ.com address for K8BF



Check PCARS out on the web at: www.portcars.org
Questions? Contact Chuck, W8PT at chuckw8pt@gmail.com



TUSCO AMATEUR RADIO CLUB'S 2023 HAMFEST, COMPUTER & ELECTRONICS SHOW

**Saturday April 22, 2023
Tuscarawas County Fairgrounds**

259 S. Tuscarawas Ave, Dover, OH 44622 *Enter through Tusc. Ave. gate*

Talk/Check In: W8ZX on 146.730 PL: 71.9 (Disabled during Hamfest)

Main Door Prize: Yaesu FT-891 All Mode HF + 50MHz Transceiver

Includes RT Systems ADMS-891-USB Programming Kit



Admission: \$5.00 Donation at the door

Presale: One admission ticket @ \$5 + extra prize tickets as you wish @ \$4 for one, \$6 for two, or \$10 for three, or multiples thereof. Any request received after April 1, 2023 will be held for pick up at the door. Winners MUST be present for door prizes; main prize can be sent.

Tables: \$10.00 Plus Admission

Open: 6:00 am for set-up, 8:00 am to 1:00 pm for public
FREE close parking available



DEALERS WELCOME!

Door Prizes

****120 Volt power available (Please bring your own extension cords)****

A SELF ADDRESSED, STAMPED ENVELOPE MUST BE RECEIVED BY APRIL 1, 2023 TO ENSURE THE RETURN OF A RESERVATION CONFIRMATION. RESERVATIONS MUST BE PAID IN ADVANCE!

Check out our web page! www.w8zx.net

Find our group on Facebook!

For additional information and / or to reserve tables please contact:

Rick Dingman KE8URA 330-934-0575 or Cindy Gray KE8JNN 330-340-4946

Or Email: w8zx@n8bag.net

Mailing address for presale reservations: Rick Dingman KE8URA 303 N. 5th St. Dennison, OH 44621

Thanks & 73



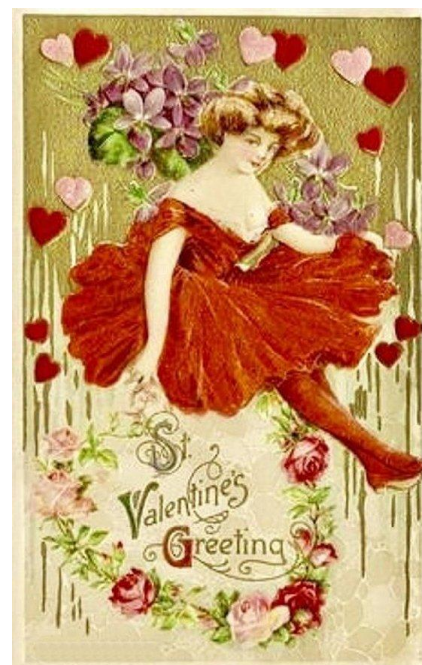
Parky, KB8UUZ
PCARS Newsletter Editor



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 during 2023 and beyond.

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

AC8QG, AC8NT, WA8EFK, N8SY, WB8LCD, KB8UUZ, KA8TOA, W8PT, KE8ARB, WG8X, KD8SCL, K3LR, AJ8B, 4Z1UG, K8CAV, N8QE, KD8WCK, AC4SH, K6KJN, W8NET, WB2MGP, AB8YK, NO8D, WA8SAJ, KE8URA, KE8JNN, The ARRL, and the World-Wide Web With *your* continued help – we can keep making this a *great* newsletter.



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 -or- www.K8BF.ORG



~ 2023 Officers ~		2023 PCARS Appointments & Committees	
President - Nick Wagner - AC8QG Vice President - Jim Wilson - AC8NT Treasurer - Greg Ash - KA8TOA 1 Year Trustee - Tom Parkinson - KB8UUZ 2 Year Trustee - Chuck Patellis - W8PT 3 Year Trustee - Mike Ryan - KB8TUY Past President - Tom Sly - WB8LCD	ARRL Awards - DXCC	W8KNO	Joe Wehner
	Club Site Manager/Liaison	K8CAV	Rick Kruis
	Contest Coordinator	W8PT	Chuck Patellis
	EchoLink		
	Field Day Chairman, 2022	WA8AR	Tony Romito
	FYAO Chairman	W8PT	Chuck Patellis
	Historian	KB8SZI	Peggy Parkinson
	K8BF Callsign Trustee	N8AMY	Amy Leggiero
	K8BF QSL Manager	N8AMY	Amy Leggiero
	Membership Chairman		
~ Meetings & Net ~ 2nd Monday of each month. 7pm Thursday night Club Net at 8 pm on 146.895	Net Control Coordinator	KA8TOA	Greg Ash
	Newsletter Editor	KB8UUZ	Tom Parkinson
	OSPOTA Chairman	KB8UUZ	Tom Parkinson
	PCARS Photographer	KE8LWO	Bernadette Wagner
	Public Information Officer		
	Secretary	KE8EGF	Paul Hyland
	Social Media		
	Tech, Gen & Extra Class Mgr.	AC8NT	Jim Wilson
	Volunteer Examiner Liaison	KB8UUZ	Tom Parkinson
	Webmaster	WG8X	John Myers



**PCARS
Volunteer
Examiner
Team
Members**

KB8UUZ	Tom Parkinson
AC8NT	Jim Wilson
AC8QG	Nick Wagner
N8QE	Bob Hajdak
KA8TOA	Greg Ash
WA8CCU	Al Nagy
N8FUM	Dan Torchia
W8EC	Mark Haas
K8IG	Fred Freer
N8XTH	Deron Boring
K8IV	Ed Polack
W8PT	Chuck Patellis
KC8JC	James "JC" Wilson
N8AMY	Amy Leggiero



THE RADIOGRAM

PCARS Incorporated
Nov. 1, 2005

First Meeting
Nov. 14, 2005



ARRL Affiliation
April 20, 2006



Special Service Club
March 22, 2010

The RADIOGRAM copyright © 2023, is the official newsletter of the Portage County Amateur Radio Service, Inc. (PCARS) - Hamvention® 2018 Club Of The Year. The RADIOGRAM is an Award Winning newsletter: **ARRL Ohio Section Newsletter - Third Place 2015, 2022 - Second Place 2014, 2016, 2020 - First Place 2012, 2013, 2017, 2018, 2019, 2021. ARRL Great Lakes Division Newsletter - Second Place 2013 - First Place in the 2017, 2020 and 2021.**

Articles are the opinion of the authors and not necessarily those of PCARS. Or, better yet, let me express it this way: "These are my opinions and only my opinions, unless you share them as well, which would make them our opinions, but I am not of the opinion that I can express your opinion as my opinion without your prior expression of said opinion, and then my re-utterance of that opinion would, in my opinion, be foolish unless I were expressing agreement to your opinion, and then it wouldn't be my opinion but your opinion to which I only agree." **GO AHEAD - STEAL THIS NEWSLETTER!** You have our permission to post, e-mail, copy, print, or reproduce this newsletter as many times as you like, but please do not modify what you use. If you use material in this newsletter, all we ask is that you give credit to PCARS along with the author of the article. Caution - some of the articles in this newsletter maybe covered by copyright - please do not copy and use the ones that have by-line information unless you obtain permission from the original author. If you're not sure, drop an e-mail to KB8UUZ@gmail.com. The RADIOGRAM always obtains written permission for reproducing copyright material. The RADIOGRAM comes out the first day of each month (usually), please have inputs submitted by 8 pm ET on the last Friday of each month. ARES® (Amateur Radio Emergency Service®) is a program of, and both logos are registered trademarks (used with permission) of the American Radio Relay League, Inc. ARRL, the National Association for Amateur Radio™. **Why the Black Squirrel in our logo?** For those of you not familiar with it: The Black Squirrel is commonly seen around Portage County, Ohio. Seems that some of these little guys and gals got loose from Kent State University back in 1961. They have migrated and thrived throughout our county. Kent State University even has an annual Black Squirrel Festival. **So when you spot a black squirrel – think PCARS!**

The RADIOGRAM is published every month and only sent to subscribers. If you would prefer not to receive this newsletter, we understand. We'll try not to take it personally. It's not you saying you don't like us, but maybe you just don't have the time to look at all this hard work we've done just for you. Hey, that's cool. But if your heart is truly set on making sure you no longer receive this newsletter, even though we promise to one day reveal the meaning of life in it and you're going to be really upset when you miss out on that, we can take you off the e-mail list. Send your newsletter inputs (in .TXT format) along with in-focus pictures (not small 50 kb photos) to the newsletter editor: KB8UUZ@gmail.com

By attending PCARS in-person activities, you are acknowledging that an inherent risk of exposure to COVID-19 exists in any public place where people are present. By attending PCARS in-person activities, you voluntarily assume all risks related to exposure to COVID-19 and covenant not to sue and agree not to hold the Portage County Amateur Radio Service (PCARS) or any of their directors, officers, contractors, vendors or volunteers liable for any illness or injury. While PCARS implements preventative measures to reduce the spread of COVID-19 in accordance with Federal, State and Local guidelines, we cannot guarantee that attendees will not become infected with COVID-19 as a result of attendance.

Portage County Amateur Radio Service (PCARS)
705 Oakwood Street - Box 12
Ravenna, OH 44266 USA



NLC

