



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

September 2023 - Volume 18 Number 9



September is Ohio State Parks On The Air contest month

Ohio State Parks On The Air



PCARS K8BF

The Club that puts the FUN in Ham Radio!





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Portage County Amateur Radio Service



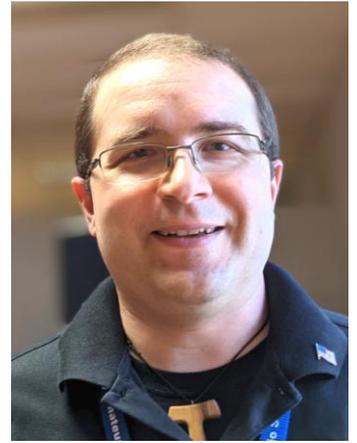
2018 Hamvention® Club of the Year



From the President



Nick, AC8QG
PCARS President



Radiogram wins!

Congratulations to our newsletter editor Parky KB8UUZ for bringing home another first place finish in the Ohio Section Newsletter Contest!

Parky, the time, energy, and effort you bring to PCARS is an inspiration! Thank you for setting such a high standard of excellence!

PCARS Open House and BBQSO Party

As often happens in the September edition, I'm writing this newsletter article before the BB-QSO Party. And I'm sure by the time this newsletter is published we'll be well past the event. That's okay, though. Every year we have a great time, and I'm happy to predict this year will be no different.

I'd like to thank our chefs, our operators, everyone who helped clean up before and after, and everyone who brought food to share. And, of course, I'd like to thank everyone who came out and participated in the Big Fun!

Please send your pictures to Parky so he can publish them in next month's newsletter!

Ohio State Parks On The Air

This year, the Wagner family is headed out to West Branch State Park for OSPOTA. It should be another fun year for us, plus it's a chance to add another park to our list.

I know the most important things are having fun and learning, but I also know a couple of young hams who might prioritize points for this event. I'm sure Agnes AD8IR and Ben AD8FQ are ready to push hard and give it their best shot. They've come a long way from 2019, when they tallied only 169 points. Last year's results set a new bar for them at 16390 points, and their enthusiasm has only increased!

Now, they can't actually achieve this alone. They don't earn points merely by calling CQ. So, if you're heading out to a park, excellent! We can't wait to hear you on the air! The more people in parks, the better! And if you're staying home, get on the air and find those park stations!

OSPOTA is a lot of fun, but it's even more fun when the bands are full of participants!

Patriot Day

September 11th marks another anniversary of the tragic terrorist attacks of September 11, 2001. Many families lost a loved one that day, and many brave and honorable people sacrificed their lives to give others a chance to live.

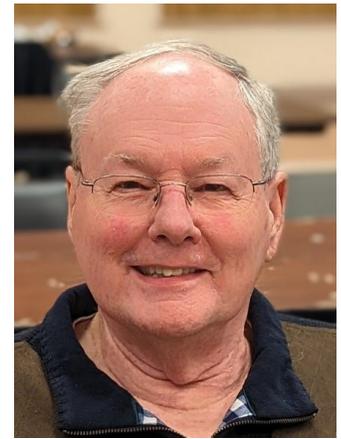
It serves as a reminder to me never to take the gift of life for granted. Every day is a blessing, as is every moment we share with our friends and family! Make today count in remembrance of those we lost that day, and in honor those who paid the ultimate sacrifice for our freedom.



From the Vice President



Jim, AC8NT
PCARS Vice President



Our ARRL Grant

This month we needed to report to the ARRL our grant status included where our project stands and if all our purchases have been made. I thought I would give our members a summary of what was bought and what we plan for the near future.

Our first goal was to purchase the equipment necessary for introducing students and adults into electronics and ham radio. We have purchased 10 workstations of tools for people to use to learn electronics and soldering. Each station consists of:

- A high temp silicone work pad to prevent damage while soldering of table surfaces.
- Needle nose pliers
- Flush cutters
- Temperature controlled soldering Iron kit
- Solder sucker
- Soldering tip cleaner
- Auto-Ranging DVM
- Solder
- Storage case



To supplement instruments, we already had at the club we purchased a Rigol 200 MHz scope and a 60 MHz Arbitrary Function Generator. We also provided a portable learning center consisting of folding tables and power strips. We are working with Kent and Ravenna schools to schedule these events this fall.

Our second goal was to give demonstrations of ham radio at public events, libraries, and schools. We have plenty of radio equipment. What we needed was a good portable antenna. We purchased a Chameleon 160-6-meter portable vertical antenna kit. This antenna can be setup in minutes and gives great results for a portable setup. Demonstrations will start in September.



All this equipment will be shown at the BBQSO party and at the September monthly meeting.

August Events

You can't say we had nothing to do in August. The Cruise-In, Ohio BBQSO Party and the first day of our operation as W1AW/8 makes for a great month of ham radio. Great fun with great people, you can't beat it. I am sure you will see a lot about these events elsewhere in the newsletter.

September

Our monthly meeting will feature Hans Summers presenting on his new QMX rig all the way from Turkey. This will be a great opportunity for those that have or plan to have a QMX to ask questions and hear a presentation on the technology used in this great kit.

We have scheduled a **Build Day for Saturday September 30th**. This build will provide training in how to load software into Arduino microcontrollers. There are hundreds of projects for ham that utilize these microcontrollers. Most

come with developed software. This build will show you how to configure your computer to load the developed code. It will also demonstrate how to make simple modifications to project software. It is NOT a programming session. I hope we will have a great turnout for this event. It should answer a lot of questions.

We will be operating at the Camp Manatoc 100th Anniversary campout on Saturday September 23rd. We hope to get a lot of scouts on the air that day. A QST will be sent out before the events suggesting frequencies we will be using for HF. Hope a few of you can be listening for these scouts on the air. There will be hundreds of scouts at this event.

That's all for now. **Have fun. Get on the Air.** And I hope to see you at our events.

Schedule of Events



- August 30th to September 2nd - Club members will be operating as W1AW/8
- September 2nd - Operating at Club Site as W1AW/8 10 am - 10 pm
- September 6th - Board Meeting at PCARS Club Site - 7 pm
- September 9th - Ohio State Parks On The Air contest - 10 am to 6 pm
- September 11th - PCARS Meeting at Kent American Legion - 7 pm
- September 30th - Build Day at Club Site - load software into Arduino microcontrollers



Special Interest Groups at the Club Site

- First Tuesday - **Digital Special Interest Group** - Moderator: Rick, K8CAV
- Second Tuesday - **Portable Ops Special Interest Group** - Moderator: John, WG8X
- Third Tuesday - **Antenna Special Interest Group** - Moderator: Bob, N8QE
- Fourth Tuesday - **DX & Contest Special Interest Group** - Moderator: Chuck, W8PT
- Fifth Tuesday - **Could Be Anything Special Interest Group** - Moderator: Rick, KD8WCK
- Fourth Thursday** - Net Night at the Club Site - 6:30 pm - Moderator: Tom, WB8LCD

PCARS Custom Coffee Cups - Limited Edition - Get One NOW

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



From the ARRL Ohio Section Manager



Tom, WB8LCD
ARRL Ohio Section Manager



Notes from the ARRL Ohio Section Manager

Your Vote Counts!

I've been telling you that we have ARRL elections coming up next month. There was only one nomination for the position of Great Lakes Division Vice-Director, that was Roy Hook – W8REH. Roy is declared the new Vice-Director by the fact that he ran unopposed. Congratulations Roy! Great Lakes Division Vice Director Scott Yonally, N8SY, will run against Michael Kalter, W8CI, for the position of Division Director. There will be a ballot coming on this one.

There are three things that you can do with that ballot once you receive it: 1) You can ignore it and throw it away; 2) you can go to the website listed on the ballot and cast your vote; or 3) you can complete the ballot and mail it in to ARRL. There are two *really good* choices here, and one choice that SCREAMS "I don't care about the future of Amateur Radio" or the ARRL.

I care about the future of Amateur Radio. I care about the Ohio Section's standing in the ARRL as their largest Section. Being the largest is pretty easy, being the best Section takes a little bit of work. Please start doing your part by submitting your ballot in this election! That's easy.

I also want to say that I'm very proud to be one of the Founding Members of PCARS and I will be an active member of PCARS up until the time I become an SK.

The survival of clubs is important to the survival of the ARRL and also Amateur Radio. Clubs are really the foundation on which the hobby and the ARRL rest. It's important that our clubs remain strong, active and engaging. As we are moving into the "Election of Officers" season for most clubs I want to remind you that ALL clubs need both active participants and competent leaders. Someone needs to step up and do the job. And I don't mean "I'll do it if no-one else will". *Everyone* in the club needs to dig deep and decide what they can do for the good of their club – and then do it! Run for the office, and if elected put in the time and effort to be the best at it. One last thing, if the guy *you* voted for didn't win the election, then support the guy who did.

Most clubs have lots of positions that need someone to do them. Fill one of those spots. If that's too much for you, then do this: **SHOW UP!** Even if you've done it before, be a part of your club and help the new hams figure it out. When your club officers put in the time and effort to create activities for you, it's a real downer when only 3 out of 40 members show up. If that's your club history, then it makes it even harder to attract folks to fill the club leadership positions.

You'll be hearing a lot more about clubs and activities in the coming year from both me *and* ARRL.



ARRL The national association for
AMATEUR RADIO®

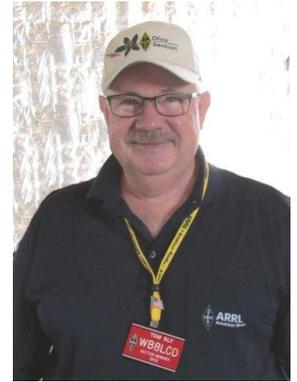
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The RADIOGRAM Wins First Place in Ohio



Tom, WB8LCD
Ohio ARRL Section Manager



As you can see here, the WINNER of the 2023 Ohio Section Newsletter Contest was “The RADIOGRAM” - the monthly newsletter of the Portage County Amateur Radio Service (PCARS). Congratulations to all of the PCARS members who have contributed to the newsletter over the year, and especially to the editor “Parky - KB8UUZ”.

Parky has been the editor of The Radiogram since its inception in 2005 and will be retiring from that position at the end of this year. Thank you Parky for your dedication to your club in this position and for turning out a consistently excellent monthly newsletter!

Parky, KB8UUZ - Tom, WB8LCD Ohio Section Manager - Elizabeth, KE8FMJ Ohio PIC & Contest Manager

I also want to recognize the second-place winner – “Cliff Hanger” of the All Things Amateur Radio Association and its editor Jim Breibach – KE8SWY. The third-place winner – “Full Quieting” of the Bellbrook Amateur Radio Club and its editor Ray Hitt – N8VMX; and the fourth place winner – “Mount Vernon Amateur Radio Club” and the editors Terry Windsor – KI8N and Frank Counts – KC8EVS. Thank you to you all for providing excellent coverage for your club members!



I especially want to thank our Section Public Information Coordinator (PIC) - Liz Klinc - KE8FMJ for her work in conducting the Newsletter Contest. She did an excellent job looking at each of the newsletters and scoring them on 5 separate attributes using a point system. I believe it was a very impartial way of looking at all of the newsletters and ranking them.

Now I want to encourage all Ohio Section newsletter editors to go to the Ohio Section Web Page (www.arrl-ohio.org) and take a look at the top-4 for this year to see what they are doing that you may (or may not) want to incorporate into your own publication! Congratulations to all of you for a job well done and appreciated by your clubs!



OSPOTA 2023 - GET READY



Tom, KB8UUZ
OSPOTA Chairman



Hello OSPOTA fans and participants,

The 2023 **Ohio State Parks On The Air** contest (OSPOTA) is coming up real soon - on September 9th many of you will be making the trip to one of the beautiful Ohio State Parks to set up and get on the air - We will be listening for you!

There are also a number of participants not at Ohio State Parks and even not on Ohio that will also be counting on you to be there so they can make contact with you.

STORIES - PICTURES - LOGS

STORIES:

How about taking a few notes on your set up and operation, then send them in with your log so I can publish that in the PCARS newsletter?

PICTURES:

TAKE PICTURES - PLEASE - it's always nice to look over pictures after an event to remember the fun had by all that attended. This also goes for those of you not at a State Park - a photo of you while at the station making contacts is great! Send those pictures in as well, please!

LOGS:

PLEASE - don't forget to send in your log and summary sheet. All the info on what should be in the log and summary sheet is outlined in the rules, so I won't repeat it here. **Note - We only accept Cabrillo file entries.**



FUN - FUN - FUN

Most of all, get out there and **have fun with amateur radio**. Our hobby is fantastic and the fun of making contacts from an Ohio State Park is just super.

When at an Ohio State Park, make sure you are polite and try to get the Park Rangers involved - have them make a contact or two, you never know how much that will go for good relations between amateur radio operators and Park Rangers.

And make sure when you leave, your area is cleaner than you found it. Park Rangers remember that type of thing for future visits by amateur radio operators.

Enjoy your trip and visit to an Ohio State Park - **Enjoy** making contacts with Ohio State Parks - **Enjoy** this great hobby of ours.

I will be listening for you and looking forward to getting your stories, photos, summary sheets and logs.



Ohio State Parks On The Air



The Portage County Amateur Radio Service, Inc. (PCARS) announces the **16th Annual “Ohio State Parks On the Air”** (OSPOTA) contest, September 9, 2023 from the hours of 10 am to 6 pm EST (1400 UTC to 2200 UTC).



For hams throughout the State of Ohio, this is your opportunity to visit and enjoy the amenities offered by the 75 beautiful State Parks here in Ohio. Don't just make a day of it - spend the weekend at the park of your choice. No matter whether you are camping or staying at one of the outstanding lodges or resorts, you will find that the parks are one of Ohio's greatest assets. Find out more about the Ohio State Parks at: <http://parks.ohiodnr.gov/>

In past years, hundreds of Amateur Radio Operators (hams) from around the country participated in the event. With the success of OSPOTA, we hope to have amateur radio operators at every Ohio State Park.

This contest places a premium on working stations located in the Ohio State Parks. That means that it is critical to have as many parks activated as possible. The challenge for Ohio stations will be to work HF in the 50 to 300 mile range. This is the perfect opportunity to learn more about the design and deployment of Near Vertical Incident Skywave (NVIS) antennas. You can find numerous designs on the Internet and in various Amateur Radio antenna manuals. Along with your operating skills, it will be a chance to showcase your antenna building skills as well.

Individuals and multiple operators can operate Ohio State Park stations. Non-park stations in Ohio as well as stations outside of Ohio can also compete.

Contacts can be made on 80, 40, 20, 15 and 10 meters using SSB. All contacts have the same point values.

Please read the Rules, FAQ's and get your forms for the contest that are posted on the OSPOTA website: www.ospota.org before the contest.



So get to an **Ohio State Park** and get **On The Air** on September 9th.
Have some fun with this contest!
Learn more about PCARS at www.portcars.org.



Take care & 73 from the entire OSPOTA contest Committee, KB8UUZ, WG8X, W8PT, W8KNO, KB8UHN

Tom, KB8UUZ OSPOTA Chairman OSPOTA



Ohio State Parks



On The Air



Ohio State Parks On The Air Contest - OSPOTA 2023

Sixteenth Annual Ohio State Parks On The Air – Amateur Radio Contest

Make sure to mark your calendar for the 2023 Ohio State Parks On The Air (OSPOTA) contest – September 9, 2023. The contest is always held on the first Saturday following the Labor Day holiday. Each year this event has grown and we anticipate another year of growth with even more participating Amateur Radio Operators.

Let me remind you that the OSPOTA contest was conceived with three main goals in mind:

- To promote public awareness of amateur radio and Ohio's beautiful state parks system;
- To contribute to the recognition that Ohio has a very diverse and wonderful ecology;
- To promote camaraderie within the ranks of Ohio's Amateur Radio Operators

Your participation has allowed these goals to be achieved. We agree it is a lot of fun to get out in a natural setting with your radio and see how well you can do at working operators in the beautiful Ohio State Parks.

This will be the 16th annual OSPOTA – Make plans now to be active in OSPOTA 2023. Don't forget – we have an OSPOTA IO Group located at: <https://groups.io/g/OSPOTA>

The [OSPOTA IO Group page](#) is used for messaging and sharing of information about OSPOTA for all the fans and participants in the OSPOTA contest. The [E-mail Group](#) is where the action is. Since we do allow spotting to encourage more contacts during OSPOTA, Facebook is being used before and during the contest for instant updates and to share stories and photos.

As the contest draws near, we'll be posting on the OSPOTA E-mail Group page the anticipated 'who's going to be at what Ohio State Park' or 'Planned Park' list as we have in past years. Send your planned park activation information to PlannedParks@ospota.org. Please, include the call sign that will be used and the Ohio State Park you plan to be at. If your plans change, just let us know and we'll update the list. Remember, more than one person or group can be at an Ohio State Park – there are no reserved State Parks.

Notes: Some Ohio State Parks are being managed by local park systems, but they are still listed and considered to be Ohio State Parks according to ODNR (Quail Hollow & Tinkers Creek).

So – pick a park and make your plans now for OSPOTA 2023 !!!!!

Questions? Check out the OSPOTA website at www.OSPOTA.ORG Email: INFO@ospota.org When the OSPOTA contest is over, send Logs and Summary Sheets to: Logs@ospota.org

Check out this handy Ohio State Parks guide at
: <https://ohiodnr.gov/static/documents/parks/Ohio-State-Parks-Brochure.pdf>



Ohio State Parks



On The Air



Tips for Succeeding at OSPOTA



John, WG8X
OSPOTA Committee Member
OSPOTA Logging Guru



Each year, I think of things I would like to pass on to OSPOTA participants. But, I never remember when the time comes to write them up. So, last September, I made notes, and started the draft for this article before leaving the campground after OSPOTA 2022. These are some random thoughts that I would like to pass along for OSPOTA 2023.

Planning

As they say, Prior Planning Prevents Poor Performance. If you were planning to camp for the weekend of OSPOTA, hopefully you made your reservations early. Since COVID reared its ugly head in 2020, campgrounds have filled up fast. Finding campsites does seem to get a tad easier after Labor Day, but it's still good to know that you have your reservations in.

Power

Will you have power available, or be relying on batteries/solar? Either way, test your systems ahead of time. No, that doesn't mean the morning of OSPOTA. That just adds to the pressure. In the words of the motivational speaker Brian Tracy, "*No one works better under pressure; they just work faster*".

Test your logging software ahead of time

Try as we might, the logging options for OSPOTA are limited. Some of the logging options are Genlog, N1MM, N3FJP. There may be others.

You can also do logging on Paper, but at some point the log has to be entered into an electronic format so that you can generate the Cabrillo file that is required for entry.

Use 80 Meters

Ohio State Parks On The air is a great contest as well as a cool excuse to get out and enjoy an Ohio State Park for a day (or an entire weekend). If you're participating from within an Ohio State Park, then you can expect your points to come from two different places.

- 1) The number of stations you can work from within your park. These can be on 80, 40, 20, 15, or 10 Meters. Since you are in an Ohio State Park, you can work anyone for point credit. Start calling CQ and ask folks to spot you. Remember, per the rules, you should not self-spot, but no problem asking others to spot you.
- 2) The other place where your points come from will be from the other Ohio State Park stations that you are able to work. For these stations, it's a good idea to be ready to work 80 meters. Though Park to Park contacts within Ohio can be done on other bands, there have been years where 80 would be your bread & Butter band for these types of contacts.

Not only are your park to park contacts good for point credit, but they are multipliers, meaning that after the contest, your number of contacts made are multiplied by the number of Ohio State Parks you contacted.

By the way, you only get one multiplier per park contacted. You can work 5 different stations in Salt Fork SP, but they still count only as 5 contacts, and 1 multiplier. Also, you can claim the multiplier for your own park, even if you don't work anyone there.

DO NOT USE WORD!

After the contest, when you create your Cabrillo file, you will want to open it up and edit it in a text editor. See the rules at ospota.org for more information on this.

Resist the urge to use MS Word to edit your Cabrillo file. Word can insert some weird formatting such as tabs that can wreak havoc with the log checking process.

Instead, use your computers text editor, such as notepad, wordpad, etc.

Log Rovers properly!

Starting a couple years back, we allowed Rovers for OSPOTA. Since it was the first year for it, we went easy on everyone during scoring, and didn't penalize anyone who improperly logged a rover. Since then, we've been adhering strictly to the rules.

ROVERS, **MUST** give their callsign as Call/R (ie: K8BF/R).

EVERYONE must log exactly what the rovers send. *Failure to log that /R will be considered a busted call.*

Know your park designator for OSPOTA, and POTA

A lot of folks keep track of POTA numbers while operating OSPOTA. So it's a good idea to have your POTA number written down for those who may ask.

So, that's about it. OSPOTA 2023 will be on Saturday, Sept 9th.
Please check out the website at www.ospota.org for the rules, and more information.



Ohio State Parks



On The Air



Ohio State Parks On The Air



Visit a beautiful Ohio State Park
and have some Amateur Radio Fun
at the same time!



But ***PLEASE*** Remember



We are Guests



**Pick up trash
and
clean your area**



**Leave the State Park nice
for the
Wildlife and Others**



Check out **all** the details about Ohio State Parks On The Air at:



www.ospota.org

While you're at it, check out the PCARS
web site at: www.portcars.org



Happy Birthday PCARS Members

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

KE8ULB	Matt
KE8JUJ	Nicholas
KD8BBT	Andrew
W8DMP	Donna
KD8VT	James
WB2RPW	Gary
KE8SMS	Kim
W8HFZ	Tim
KA8OAT	Richard
W8AHC	Ronald

N8KBX	Bob
AC8NT	Jim
KD8PBL	Rick
KD8FME	Jim
NT8K	Bob
W8IFM	Bill
K8NYL	John
WD8BIW	Karen
KD8JRE	Michael
KD8WBC	Don



Candidates for ARRL Director & Vice Director Elections

EDITOR'S NOTE: The following is an edited version of the bulletin sent out to all Great Lakes Division ARRL members (you have to be signed up to receive the ARRL e-mailed bulletins)

Newington CT - August 22, 2023 - To all radio amateurs SB QST ARL ARLB018 ARLB018
Candidates Named for ARRL Director and Vice Director Elections

The ARRL has announced that the candidates for the 2023 ARRL Division elections are now official. ARRL members will choose between two candidates for Director in the Great Lakes Division.

The sole candidate in the Great Lakes Division for Vice Director is unopposed. In the Great Lakes Division, candidate Roy Hook, W8REH, will be the next Vice Director, being unopposed for the seat to be vacated by Vice Director Scott Yonally, N8SY.



Contested Seats:

In the Great Lakes Division, Vice Director Scott Yonally, N8SY, will run against Michael Kalter, W8CI, for the position of Division Director.

Balloting for contested seats will take place this fall. Votes will be counted, and successful candidates announced, in November. Candidates declared elected will assume their roles for terms beginning January 1, 2024.



ARRL is governed by its Board of Directors. Elections are held for five of the fifteen ARRL Divisions each year, for terms of three years.

Candidate Statement - ARRL Great Lakes Director - N8SY

Editor's Note: The RADIOGRAM invited both of the candidates running for the office of ARRL Great Lakes Director to submit their statement. The following was submitted by Scott Yonally, N8SY, the current Great Lakes Vice Director.

Scott Yonally, N8SY for Great Lakes Division Director



The position of Director holds great importance and responsibility that demands strong, experienced leadership. Someone who understands YOU and your needs as well as the needs nationally. I have that experience.

I've heard from you the challenges we face today, protection from oppressive antenna restrictions, making the NTS / ARES more robust with more training both basic and advanced. Developing better services for our Affiliated and Special Service Clubs.

My experience and time collaborating with the ARRL Staff and Board members permits me to see that the ARRL leadership is proactive in resolving the concerns of the Great Lakes Division membership.

I am currently serving on the Emergency Communications & Field Services Committee where I led the charge to change the Club Commission Program to make it more lucrative and easier for the clubs to take advantage of. I also led the charge to make all Affiliated / Special Service Club anniversary dates expire at the same time making it much easier for clubs to remember when to renew.

The ARRL represents what is best in amateur radio and our ever-faithful members are the reason that the ARRL has such a strong and rich history.

What I will do as Director my first 100 days...

Every leadership role that I have held has come with an understanding that I would have 100 days to take actions that demonstrate my ability to do the job and my commitment to address important issues that ARRL members here in the Great Lakes Division care about. I believe that anyone that is chosen to be your Great Lakes Division Director should make this sort of commitment.

- I will complete a round of proactive ARRL Leadership and Board outreach discussions. I will reach out to all ARRL Directors, all Vice Directors, the President, First and Second Vice Presidents and our CEO to try to understand what they feel needs to be done to improve the Amateur Radio Service and the ARRL's role in it. I will attempt to find common ground and build consensus on concrete action that we can take in support of ARRL member needs. I will partner with our Vice Director to complete these conversations.
- I will take concrete steps to improve Communications and Collaboration within the Great Lakes Division. I will schedule regular quarterly Division Cabinet meetings with all of the Section Managers within the Great Lakes Division.
- I will modernize our Division's newsletter, making it more robust and interesting. It will incorporate pictures and interesting articles from around the Division and will be easily downloadable for you to save and read anytime on or off-line.
- I will do surveys asking for your input on many subjects. Getting your input is vital to Amateur Radio's health and wellbeing as well as to the Great Lakes Division. A simple one or two question survey every month will go far in keeping the lines of communication open and collaborative.

My longer-range plans as Director...

- Bring new people into Amateur Radio by collaborating with clubs across the Great Lakes Division

- Create opportunities for STEM learning in schools / colleges throughout the Division utilizing ARISS and Teachers Institute
- Create positive public / private agency awareness and support for ARES and Amateur Radio
- Ensure effective, open, 2-way communications between the ARRL and its members. I recognize the hardships that our members are going through right now and what any increase in dues can do. I will work hard to assure that our dues structure will be sound for the future and our programs and services can grow
- Establish the Great Lakes Division as a leader in providing world-class Amateur Radio programs and services

We need a Director who is Collaborative, Innovative and Action-Orientated to accomplish these goals and grow the Great Lakes Division and ARRL. I am that person and I promise to work hard for you.

My experience and time collaborating with the ARRL Staff and Board members as your current Vice Director and before that a Section Manager has enabled me to see that the current leadership is proactive in resolving the concerns of the Great Lakes Division membership.

I am also privileged to serve as the Board Liaison to the Public Relations Committee. This Committee is charged with many different Public Relations activities... World Amateur Radio Day and Field Day are just a couple of them. The PR Committee is also responsible for nominating the best candidates for the Bill Leonard, W2SKE, Professional Media Award and the Philip J. McGan Silver Antenna Award. Both of these awards are very special and are only given out to a few selected people that have gone through some very thorough screening.

Serving as a volunteer on the ARRL Foundation, I have had the pleasure of assisting in the selection of students to receive scholarships these past several school years. This duty is very important to make sure that the many hundreds of thousands of dollars in scholarships were awarded to the best qualified students.

I am an Amateur Extra operating 160 Meters through 450 MHz. I'm a "casual" DXer but really enjoy just "rag chewing."

I have been honored this year and last to be asked to assist in the training of new Section Managers. My presentation on "Exploring the work and overall experience of being an ARRL Section Manager" had a real impact on a number of them and I still have contact with many of them yet today helping them with day-to-day issues only faced by a Section Manager.

Working with many different government agencies and hams all over the country I enjoy helping to solve problems and creating new ways of making this wonderful hobby fun and exciting.

I currently serve as: Great Lakes Division Vice Director, ARRL Official Relay Station, ARRL Official Emergency Station, ARRL Extra Class accredited Volunteer Examiner and LAUREL Extra Class accredited Volunteer Examiner.

In 2019 I was recognized by the ARRL Board of Directors to receive the ARRL Joe Knight Distinguished Service Award. Only a handful of Section Managers have ever received this award. Just this year I was awarded the Allan Severson, AB8P Memorial Award from the Ohio Section.

I am an ARRL Life Member, Life Member of the Ohio Single Side-Band Net, Life Member of the Portage County Amateur Radio Service (PCARS) and a member of the Quarter Century Wireless Association.

As service to my community, I am the Vice-Chairman of the Richland County Local Emergency Planning Committee (LEPC) and a member of Ohio Public / Private Partnership (OP-3).

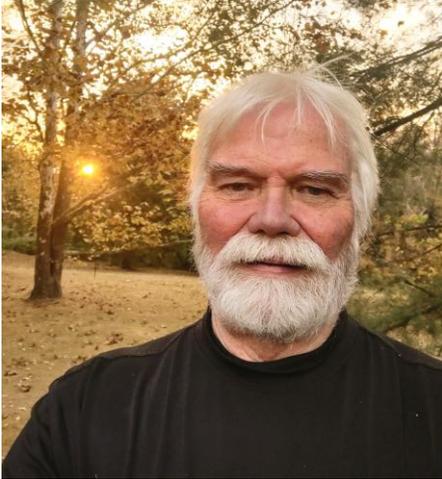
I would appreciate your vote and support to become YOUR Great Lakes Division Director. Want more information about me, go to: <https://n8sy.com>



Candidate Statement - ARRL Great Lakes Director - W8CI

Editor's Note: The RADIOGRAM invited both of the candidates running for the office of ARRL Great Lakes Director to submit their statement. The following was submitted by Michael Kalter, W8CI.

Michael Kalter, W8CI for Great Lakes Division Director



I'm Michael Kalter W8CI and I am asking for your vote for ARRL Great Lakes Division Director. I am a member of PCARS. I am confident I will make a positive contribution when elected utilizing my business and board experience.

My Skill Sets

I have many years in executive positions in the Dayton Amateur Radio Association and led a team saving Hamvention in its toughest times. I have spoken at conferences both domestically and internationally.

I recently met with the state legislator who introduced the distracted Driving Bill in Ohio and successfully had the wording inserted in the Bill to Exempt Amateur Radio Operators.

Professionally I lead business turnarounds and orchestrate mergers and acquisitions. I have served on numerous boards, both for-profit and not-for-profit, and have taught board governance.

Why I'm Running

As Amateur Radio has grown, ARRL membership has declined, and recent Board actions could exacerbate that decline. I don't believe that increasing revenues at the expense of membership is a winning proposition. My opponent voted for the dues increase.

League leadership seems to bristle at even the most well-intentioned criticism and treats outside resources as competitors to be shunned rather than as colleagues. For Amateur Radio to survive in a technologically changing world, I believe we need more cooperation, not less.

Served-agency relationships are largely local and personal. I believe we must trust, empower, and support our Section leaders rather than try to control everything from ARRL headquarters.

The board, including my opponent, recently voted to toughen the requirements for roll call votes, without which members can't see how their director votes. I favor transparency in Board actions and freedom of Board members to communicate openly with their constituents. Differences of opinion are vital to healthy growth and should not be prohibited or punished.

Help Me Help ARRL

ARRL is too important to fail. With your votes, I will put my skills and efforts toward keeping it vibrant and relevant. Please elect me to work toward this objective!

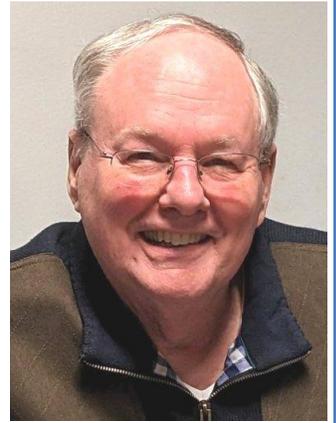
Contact me at Michael@michaelkalter.com with your questions and ideas.

Michael Kalter, W8CI - www.w8ci.net.



ARRL The national association for
AMATEUR RADIO[®]
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(860) 594-0200 • WWW.ARRL.ORG

Jim, AC8NT



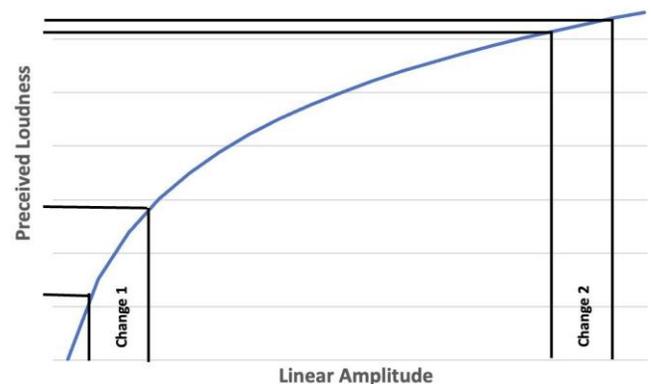
This month's topic: The often-misunderstood volume control

Often my Tech Tips articles are the result of a question I have been asked. This month's is the result of a question sent to me by an engineering student. He wanted to know the difference between a linear pot and a volume control pot. He was told by a "Sage Master" that the volume control was logarithmic. The question was not as simple as he thought to answer. This tip will discuss how a volume control works and how they can be manufactured.

A little background

The human ear is a truly miraculous device. It can process sounds over a 130 dB range made up of frequencies from a few hundred Hertz to over 20 kHz. The fact that we have two allows you brain to measure phase and provide location services. Ask any engineer developing sound processing systems and they will tell you it is a very hard system to duplicate.

Sound amplitude, the pressure of sound at the ear, is measured in dB(A) with 0 dB(A) absolutely no sound pressure. Experiencing a 0 dB(A) environment is truly a weird experience. I once was in an anechoic chamber that was said to be at .5 dB(A) and it was strange. The first 30 dB(A) is below the ear's sound floor. You just can hear anything below that level. To manage the dynamic range of the ear, as sound pressure gets higher it takes more pressure change for the brain to sense an increase in loudness. Figure 1 shows the relationship between sound pressure and apparent loudness.



As you can see, we would need to amplify the Change 2 signal to make the perceived (apparent) change in sound level as large as it is in Change 1. A simple rule is that to double the apparent loudness you need to increase the sound amplitude by 10. (A 3 dB increase in apparent loudness requires a 10 dB increase in sound amplitude.). As a simple example assume the listener remains in the same location with respect to a speaker driven with 5 watts. For it to appear twice as loud, the output would need to be changed to 50 watts. For the 50-watt sound to appear twice as loud the output would need to be increased to 500 watts.

$$y = ab^x - a$$

Where h_m is where y is at the midpoint

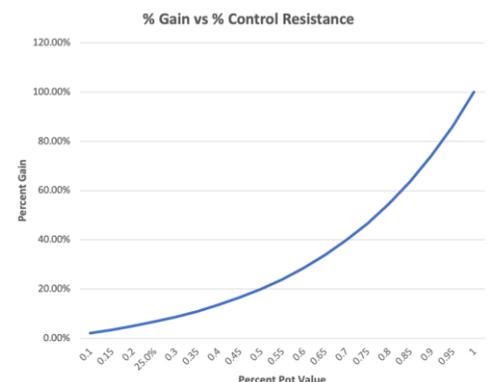
$$b = \left[\frac{1}{h_m} - 1 \right]^2$$

$$a = \frac{1}{b - 1}$$

So, what kind of gain change do we need to make to sound level to make the apparent sound level with respect to the position of the volume control linear? The answer is gain-change that is exponential, not logarithmic in form. The equation can be used for such a linearization.

If you have a pot controlling gain and the gain is max at 100% of the pot setting and zero at the minimum pot setting you need a curve like the following.

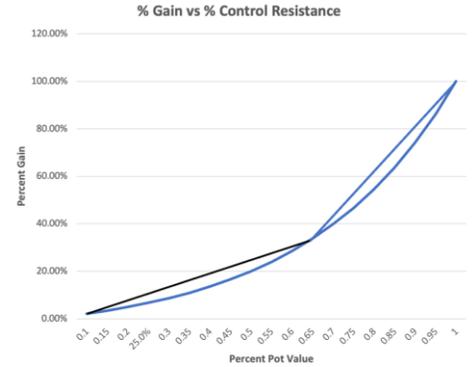
As you can see the gain changes at a much higher rate as the pot setting is increased. This potentiometer will control the gain change necessary to produce the desired apparent loudness. The shape of the curve is controlled



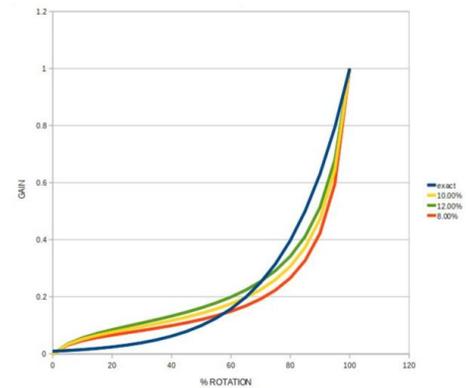
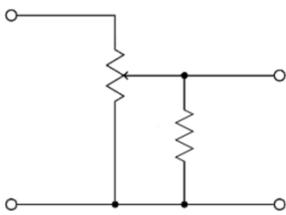
by the variable h_m . I have found many different shapes of these curves used for volume controls. Most between .2 and .4 for h_m .

This is a very nice idea, but manufacturing a pot with this resistance profile is a real problem. The film on the pot would need to have either a continuously variable thickness or a continuously variable width per degree of rotation. So, how do they make the pot we need? They do so by making it out a series of resistance profiles. As you can see from the next plot, you can approximate the curve with two straight line segments.

The first 65% of pot rotation would have one resistance per degree coating and the rest would have another. This provides a pretty good approximation of the curve we need. If you take a volume control apart, you can often see the point where the resistance changes.



There is another cool trick to generate a profile like the one above. Let's assume you only have linear pots and want to generate an exponential curve. You can use the following circuit consisting of a linear pot shunted with a fixed resistor. The blue curve shows the ideal mathematical profile. The other curves show what happens with shunt resistors of 8, 10 and 12 percent of the pot value. Example a 100k linear pot with a 10k (10%) shunt. Shown as the yellow curve.



This is a much easier configuration to build into a circuit and is very often used in amplifier circuits to reduce parts complexity. As a note, you can manipulate the factors in our earlier equation to get this ideal curve.

The student did disassemble a volume control pot, remove the wiper, and measure the resistance from one end. As he moved along and plotted the resistance, he found the point where the resistance rate changed and actually saw the change using a microscope. He sent me a note asking if anything is as simple as it seems? I answered a lot of things were, just not a volume control.

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.

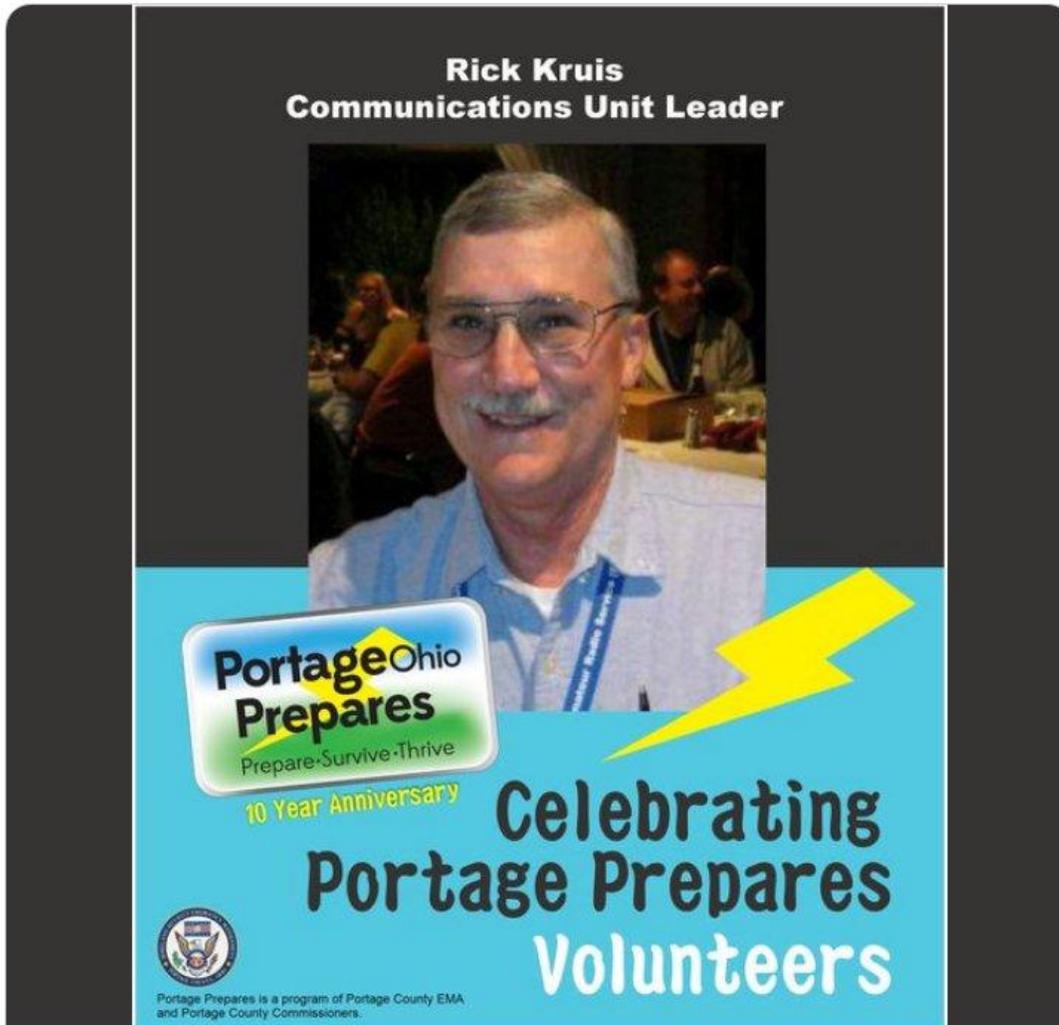
Check out the PCARS IO Group at: <https://groups.io/g/PCARS>

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!!



Rick, K8CAV Recognized for his work as Comms Unit Leader



Portage Prepares · Follow

August 14 at 11:28 AM · 🌐

PORTAGE PREPARES VOLUNTEER SPOTLIGHT! 🌟

Portage Prepares operates through the dedicated work of the Portage County Emergency Management Agency staff and volunteers. It's our 10-year birthday and we are recognizing volunteers. Thank you to Rick Kruis, Communications Unit Leader, and his amazing unit members!

[#PortagePrepares](#) [#PortageCountyOH](#)

Rick Kruis has been a volunteer with the Communications Unit of the Portage County Emergency Management Agency since 2012 and now serves as Unit Leader. The unit, also known as CU, is comprised of local amateur radio operators who use their skills with ham radios to provide communications during emergency incidents, local community events and other situations as needed. Many of the unit are members of the very active Portage County Amateur Radio Service, which Rick joined in 2008. He has had a long passion for amateur radio and earned his Federal Communications Commission operator license in 1970. A lifelong resident of the Mantua, Shalersville and Hiram areas in Portage County, he is a 1971 graduate of Crestwood High School in Mantua. Rick is a retired U.S. Army officer and member of the Ohio National Guard after 24 years of service. He owned a business locally but is now enjoying retirement.

[Portage County All-Hazards Incident Management Team](#)

On The Road with WG8X



John, WG8X



Somewhere On The Road in Western & Southern Ohio

It's been another busy month On The Road. I'm still pursuing my quest to activate all of the POTA references in the state of Ohio. As I've mentioned before, there's 271 POTA in the state.



Since last month's installment, I've done a few more roves; one to Western Ohio, and two more to the beautiful area south of I-70. These trips have helped me to increase my total references to 247. That's right; only 24 more to go.

The last week of July found me traveling once again to the back roads of Southern Ohio. The route took me south of Columbus to Pickaway & Ross Counties. Afterwards, a very scenic drive up Rte. 22 through Lancaster brought me to southern Muskingum County, where two more stops were waiting. This trip was unique in that I didn't do much preparation beforehand; just plugged locations in my GPS and moved from site to site. It was another beautiful day for a drive in Ohio.



Three weeks later, I had one more trip I had to do; Flint Run. This required a little extra preparation. I'd been there a year ago, and didn't find a way in to this wildlife area south of Wellston. FR is a remote location in NE Jackson County. There is no vehicle access to this parcel. The best I found was a parking area on Tick Ridge. Even from there, it is still a half mile hike to reach the yellow blazes that mark the boundary of the Wildlife area. Since this one had been rarely activated (5 attempts, 171 contacts; only 9 of those had been on CW), I hung around for a while. Unfortunately, equipment trouble made me decide to pull the plug at 67 contacts.



A friend, Eric, WD8RIF recommends a small, high ground clearance AWD vehicle to access this one. I can't argue Eric's observation on this one. Will I did have AWD at the ready, I managed to stay in 2WD for the trip to Tick ridge. The access road is paved for only the first 500 feet or so; the rest is very rough.

I try not to make a long trip like this to only activate a single location. Vinton furnace Experimental State forest was just to the north. This was a location I had failed to activate a month before due to a logging program issue. So a return trip was in order.



Last weekend's rove came while I was camping at Delaware SP for the POTA Ohio meetup. Arriving a day early, it was easy to knock out eight locations the day before the event. Will I finish the rest this year? I hope too. Tune in next month to see.

Lastly, I'll keep saying this; the state of Ohio has some of the most beautiful scenery you've ever seen. I don't care what part of the state you're talking about, there's always something interesting to see.



INDEXA World Wide QSO Party

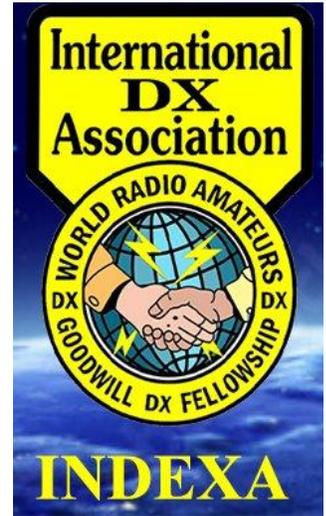
In September, INDEXA, The International DX Association, is celebrating its 40th year of supporting DX and hundreds of DXpeditions.

To mark the occasion, INDEXA is sponsoring the INDEXA Worldwide QSO Party that will run from **September 2nd through September 10th**. We invite everyone to participate.

This is a fun, multimode, everyone works-everyone event. You do not have to be an INDEXA member to enjoy this. Activity will be on the legacy bands, 160 to 10 meters.

You may relax and chat with your pileup companions or be competitive and seek out multipliers, bonus point QSOs, and work for one of our many awards.

Full details are on our website: www.indexaqsoparty.com



Contesting from New Jersey

Gary, WB2RPW



Hello fellow PCARS members. A quick report from a PCARS member in New Jersey.

I operated the NAQP CW contest on August 5th & 6th.

I had 93 Q's and was "in the chair" for a total of 7 out of a possible 10 hours. I operated on 3 bands: 20,40 and 80 meter CW.

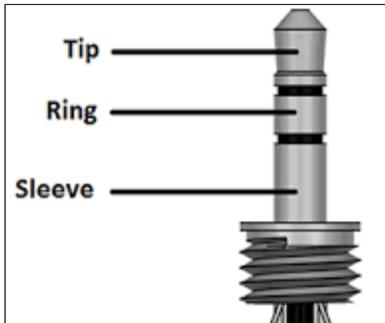
My Elmer suggested that there might be some level G2 space weather storms. I think the storm's materialized as contacts were few and far between. Even though, I had 93 Q's and 45 multipliers I managed a total score of 4,185.

I had trouble getting my Winkeyer to work properly so had to do everything manually. I think we will eventually put a call into FlexRadio to get help with the Winkeyer.



ICOM IC-2300H Microphone Data Communication

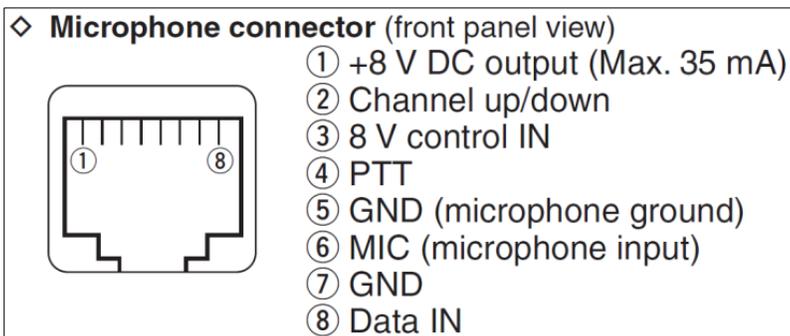
Paul, N08D



Currently, I monitor the N8DXE DX Cluster on 144.91 MHz. It's a backup for monitoring via the web. But my *Icom IC-229H* was starting to show its age after 20+ years of running packet 24 hours/day and I decided that the *Icom IC-2300H* looked like a suitable replacement. After receiving it, I ordered the cable to adapt my ancient *Timewave PK-96* TNC to the RJ45 microphone connector on the radio. At first, all seemed to go well even though the IC-2300H had no Line-Output at the microphone connector like the IC-229H. This meant that the audio input to the TNC was going to have to come from the speaker output jack and I would have to make sure that the volume was at the correct level so that the TNC could provide clean audio to the radio.

Earlier I had decided that I also going to use this 2m radio for voice communication. This called for a speaker to sometimes be hooked to the audio output instead of the TNC. The speaker output connector is a three conductor 3.5mm socket. The mating plug is shown above. This allowed me to come up with a simple DPDT switch to allow the Tip and Sleeve to be connected to either the TNC or the speaker. The third conductor – the Ring – is used for programming the radio with software such as that provided by *RT Systems or Chirp*. For that, I wired a pass-through to which I could attach the programming cable.

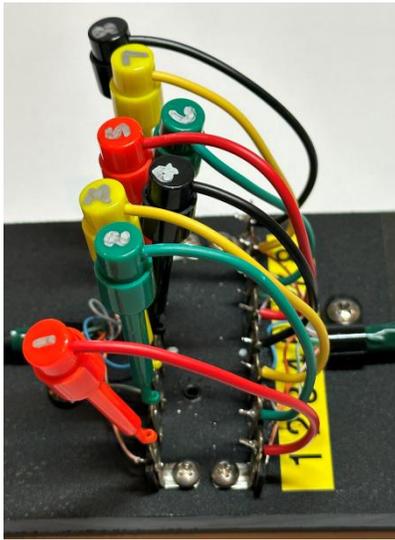
Testing the switch with the radio, speaker and TNC provided the first surprise: If I flipped the switch from the TNC to the speaker, when I re-selected the TNC, the radio would not respond when the TNC called for it to transmit. Even if I merely removed the plug from the speaker jack and then re-inserted it, the radio would fail to respond to the next transmit command from the TNC.



The only way that I could get the radio to again respond to the TNC was to cycle the 12 VDC power to it. Or I could plug in the microphone instead of the TNC and pressing the xmit button would cause the radio to transmit no matter what. **How can that be?**

The “transmit command” from the TNC consisted of grounding the PTT conductor of the microphone connector. Simple enough and used on many radios for eons, right?

Due to the small size of the conductors, checking the status of any conductor on an RJ45 connector is always a little problematic, so I built what could be referred to as a simple “breakout box” from an old CAT 5 cable, two 8-conductor terminal strips and 4 clip-leads split in two to make eight conductors. This arrangement allowed me to check voltage and current on any of the 8 pins and to allow or disallow any of the connections between the PK-96 and the radio. With the use of the breakout box I measured the voltage on the PTT (conductor #4) and when the TNC said it was transmitting, this conductor went to ground – but the radio didn't go into transmit.

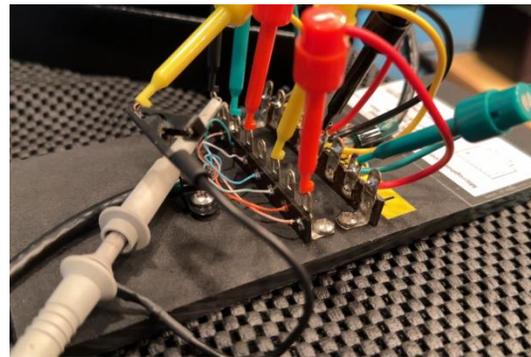


I plugged in the mike and proceeded to disconnect in turn, the connection of each of the eight conductors and find out which connections were required. What I found was that the mike doesn't even use the PTT conductor. In fact, the only conductors used were 1,3,5,6 & 8. [See table above.]

This hinted that the microphone was communicating its wishes via pin 8, Data IN.



It was time to look at the signals being transferred via Pin 8, so I connected it to an Oscilloscope via a standard passive 10:1 Probe.



Above is the hookup that I used.

The radio provides power to the mike and the oscilloscope is hooked to Pin #8 [Data IN].



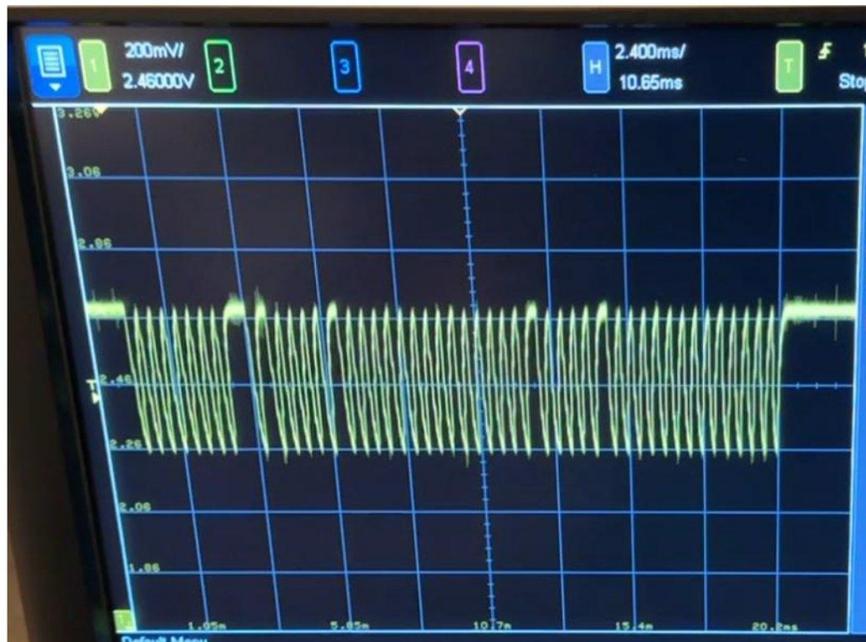
The signal then arrives to be measured at Channel 1 of the Oscilloscope.

The oscilloscope is setup for a *Single Shot* [Button Circled] which means that it will wait to display a trace until a signal arrives that is at or above the *Trigger Level Setting*. Then after displaying that trace the 'scope will stop so that you can get a good look at what you have captured.

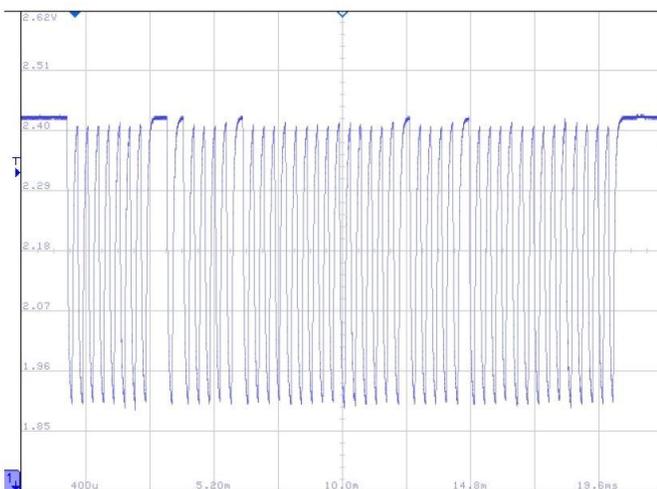
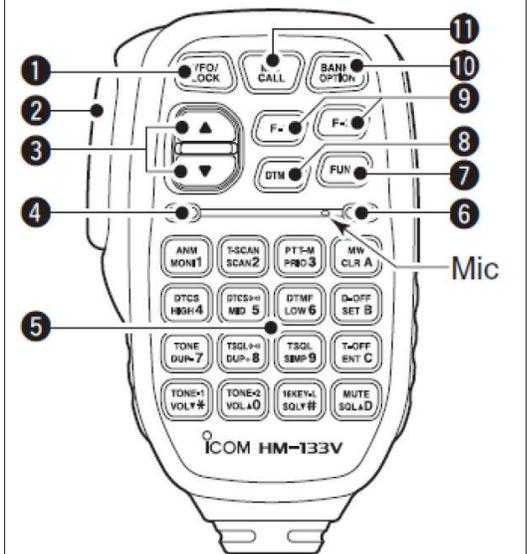
When the mike button was pressed the oscilloscope captured the waveform.

The waveform produced at Pin #8 is shown below.

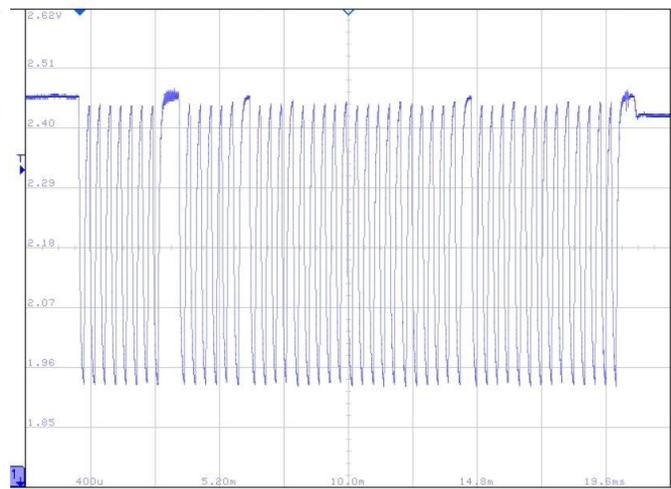
Each of the buttons on the microphone produces a different trace on the screen.



Microphone (HM-133V)



This is what the waveform looks like when the mike transmit button is pressed.



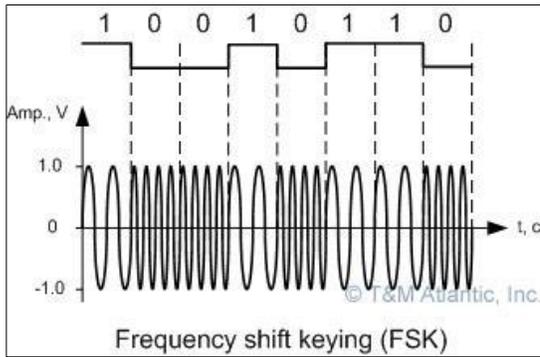
And this is what the waveform looks like when the button is released.

Subtle differences but important ones.

Interestingly, the transmit command is transmitted once per button press, whereas the stop-transmitting command is repeated 4 times when the button is released.

Also, if the button is pressed & held and the mike is then disconnected the radio will continue to transmit. It needs that command to stop transmitting.

Having the stop-transmitting command repeated 4 times was a smart choice. This is the first time that I have seen this type of communication between devices and I guessed that the waveforms could be FSK. The waveforms shown on the oscilloscope show that 48 bits are delivered in about 20 milliseconds. That would be $48/0.020 = 2400$ bps which sounded reasonable.



This image from <https://tinyurl.com/48kh6rh8> indicates the conversion from waveform to binary signal.

Later, a friend **Greg, W8WWV**, looked at my results and said, “I was able to find this page with a description of the bit patterns and the data interpretation: https://www.tinymicros.com/wiki/Icom_HM-98/HM-133_Internals The protocol used does not, to my eye, look like anything “standard”. **There is a LOT of information about this microphone on that page.**

Actually, way more than I needed to know. I was merely interested in getting the *Icom IC-2300H* to work in my application. On the other hand, I was happy to follow down the rabbit hole and gain some additional knowledge. I hope that you also enjoyed the trip.

Ultimately, my solution to the radio not accepting the transmit command from the TNC after I have switched back from using the radio for voice communication is to just cycle the power to the radio and then everything is fine again. Sometimes simpler is better.

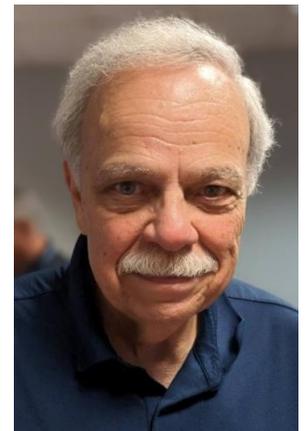
A word about the oscilloscope used.

It seems like just a few years ago that a digital oscilloscope that would have been used to capture the waveforms that I show here – using the Single Shot mode – would have cost an arm and a leg.

Amazingly, there are now oscilloscopes that can do that and even more that cost about the same as you might pay for a good 2 meter radio. For instance, here is a *Rigol* digital oscilloscope available on Amazon for \$279 [<https://tinyurl.com/mtscdd3p>]. I have used *Rigol* oscilloscopes [<https://www.rigolna.com/>] and I can easily recommend them as a good scope with the attributes that many people would be happy to have.

Ham License Renewal - Some Problems - Solved

Tony, WA8AR



On a different note, I had to renew my license and ran into some problems. I ended up calling the FCC IT help desk, they sent me detailed info which worked great.

The strange thing was that I had all of my FCC info: user name, password, FRN from 10 years ago. I was able to log into the FCC CORES system with no problem, but the links it brought up did not allow me to associate my username and password with ULS so that I could manage my FRN and start the license renewal process.

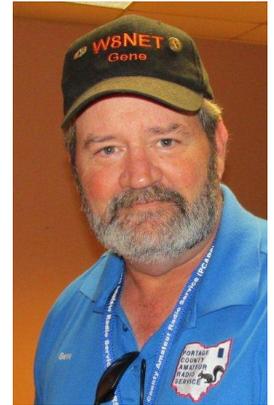
The info sent to me from FCC IT had what looked like the identical links, BUT they brought up a different screen which allowed me to complete the process in just a few minutes and send them my \$35. The next day the FCC emailed me the official copy of my license.

Also, FCC IT was super nice, and I was only on hold for 2 minutes! Right now there is a possible bug in the system that the FCC IT fixed for me (my 10 year old username and password seemed to be the problem).

So - all is good and my license is valid for another 10 years !

Squirrels Can Chew.....

Gene, W8NET



DATELINE 08 August, 2023:

Every other year, I re-install my Butternut HF9V (or my “Frankentenna” - see the old Radiogram article) checking all components and connections, clean all screw threads with naphtha (white gas), re-coat the threads with Jet-Lube, etc. I had a replacement 75 ohm stub from DXE, a new feed point connector (homebrew), and a new DXE 75 foot RG-8X cable installed. It was PERFECT, tuned properly, etc. I was getting great reports. That was 3 weeks ago.

And then...

Suddenly, 2 days ago, it would not match. I checked everything. Ohmmeter said it was good. I cleaned the connections (why would it have a problem since it was been there for only a few weeks!). Simple visual inspection said it was fine. I checked the feed point connection. I checked the 75 ohm stub. I checked my sanity (always in question), puzzling indeed.

So, I then checked my HF9V with a new, cheap piece of RG-58 I use for a spare. It worked perfectly. It didn't make sense!

I talked to Tommy (don't know him or his call) at DXE. Of course, he asked me if I checked continuity, etc - and I did. He was very polite and professional, but he didn't have a clue. However, he suggested to get the cable, go to the retail store, and get Mark, a DXE Sales/Tech guy to test it.

So, I got the cable, preparing to go to DXE (I'm 3 miles away). Then, this is what I saw. My local BLACK SQUIRRELS must have had a feast!



A 2 foot section was thoroughly chewed. Now I understand - the ohmmeter said it had continuity, and it did. But, at power, it would



not match!

Now, I have to replace my beautiful, new cable!

I told Parky, KB8UUZ, about my issue. He told me that he had the same problem with chipmunks! His solution was to encase the cable with PVC tubing. And that will be what I do!



Curious thing. No problem with the cheap cable I used for 5 years. The squirrels don't touch that. Only the “gourmet DXE” cable they ate, after less than 3 weeks. GRRRRR! WHO WANTS SQUIRREL STEW???



Fair Radio Surplus Store to Close

An Ohio iconic electronics surplus store will soon be closing its doors.

Phil Sellati, owner of Fair Radio Sales <https://fairradio.com/> in Lima, Ohio, says it's time to close the business.

"I took over the business that my dad started in 1947, and after 50 years, it's time to close the doors," he said. Sellati has had an offer on the building and feels that it's time to move on.



Fair Radio Sales
Electronic Military Surplus



World's Finest Electronic Surplus
Since 1947

There are 30,000 square feet of equipment and parts that all need to go. Sellati wants to be done with the business by October 2023, but he thinks it might take a little longer. He has even received suggestions to stay open for next year's Hamvention® in Xenia, Ohio.

Thousands of amateur radio operators, collectors, experimenters, and shortwave listeners have visited the store over the years. The shelves and aisles are full of old military radios and receivers. [The store's fall-winter 1967 catalog](#) lists a BC-499 FM 20 - 28 megacycle five-channel, crystal-controlled receiver with a dynamotor for \$18.95; a GO-9 Navy 100 W CW transmitter for \$69.95; along with pages of meters, cords, headphones, and microphones circa 1942.



Many Fair Radio Sales visitors started visiting when they were young, and they continue to shop there now. For one radio amateur, it was a must-stop location every year on their way to Dayton Hamvention. Another amateur radio operator said he stopped there in 1980 to pick up a Teletype Model 19 that still works today!

Sellati said he likes what he does and has enjoyed coming to work, but he wonders what comes next. He said he's thinking about looking for another building and starting over.



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.

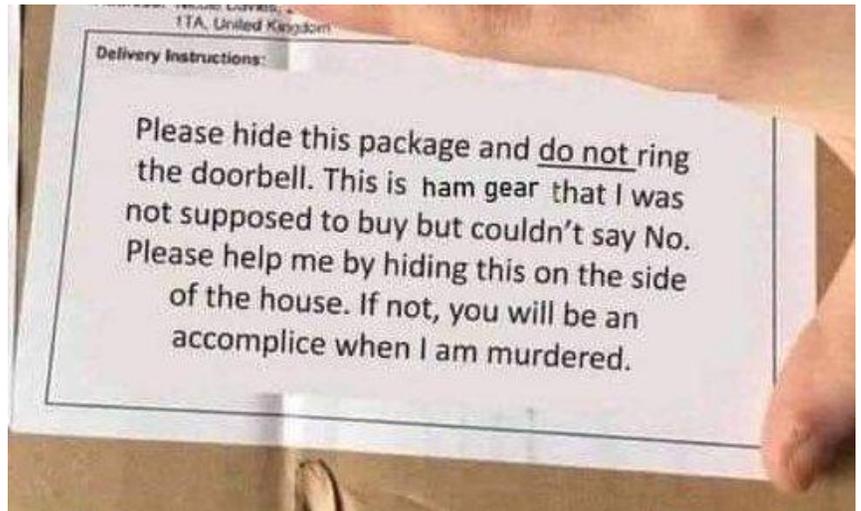


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09/10/2023 - Findlay Hamfest - Location: Findlay, OH - Hancock County Fairgrounds - 1017 E. Sandusky St., Findlay, OH 45840 Phone 419-423-3402 - Sponsor: Findlay Radio Club - Website: <http://findlayradioclub.org>

09/24/2023 - Cleveland Hamfest - Location: Cuyahoga County Fairgrounds - 19201 E. Bagley Rd. - Berea, OH 44017 Sponsor: Hamfest Association of Cleveland - Public Contact: Doug Dever, AB8M - 8035 West Ridge Dr. Broadview Heights, OH 44147 - Phone: 216-401-5888 - Email: dougdever@gmail.com - Website: <http://www.hac.org>

10/29/2023 - Massillon Hamfest & Auction - Location: MAPS Air Museum - 2260 International Parkway - North Canton, OH - Sponsor: Massillon Amateur Radio Club - Contact: Perry Ballinger, W8AU - 2468 Bellevue Ave SW Massillon, OH 44647 - Phone: 330-705-8449 - Email: w8au@sssnet.com - Website: <http://www.w8np.net>



FOR SALE: Gap Eagle antenna - Full coverage with a VSWR less than 2:1 on 40m, 20m, 17m, 15m, and 12m . \$50

Contact: Al, WA8CCU via e-mail at: radioflyer73@roadrunner.com [11/23]

FOR SALE: Yaesu G-800 SA Rotor used but in operating order, with Control Box and 130 ft of brand new control cable - \$400.00
Yaesu GS-065 Thrust Bearing, also used but in good condition - \$30.00

Contact: Chuck, W8PT via e-mail at: chuckw8pt@gmail.com [11/23]

FOR SALE: Original model tinySA-Basic spectrum analyzer. In factory original box, includes USB charging cable, telescoping antenna, two SMA male to SMA male cables, and SMA female to SMA female adapter. See <http://tinysa.org> for detailed information. \$40.00
Alinco model DR-110T 2 meter FM mobile transceiver. 40 watts (high) 5 watts (low). Includes mobile mounting bracket, power cable with Anderson power pole connector, Alinco DTMF microphone, and printed manual. \$70.00

Contact: Rick, K8CAV at k8cav.com@gmail.com or 330-620-8826 [10/23]

FOR SALE: Vibroplex Iambic Paddle IAMBIC-S, Gray Base. DXE price: \$179.95 - Make an offer. Was manufactured in 1987 or 1988. Will bring it to club meeting, Ravenna PCARS site, or you can see and try it at my QTH in Kent. Photo of what one looks like: <https://www.dxengineering.com/parts/vib-iambic-s>

Contact: David, W8HFY at 330-673-3146 (leave a message and your number) email: davidjreith@yahoo.com [10/23]

FOR SALE: TWO Yaesu FT-50 HTs - Here is what I am selling as a package: **2 Yaesu FT-50R Dual Band HT's***
2 Antennas for them **3 batteries** (1 FNB-49, 1 FNB-47, 1-YV25H2-A)** **1 Master Charger** 1a for Yaesu FT10R/51R
1 Yaesu NC-50 Rapid Charger **2 FBA-15 Battery cases** that take 4 AA Batteries for the radios. **1 RT Systems Radio programming software and cable.** **1 Yaesu MH-34 Speaker/microphone** **2 Premier Speaker/Microphone** (one good, one older with outer coating drying out. Both work) **1 Original box, 1 no box.** **1 original manual, 1 copied manual**
**The FT-50R that is marked "RED" is missing the center battery contact pin. It still works. I do not know what that pin does because on the AA battery packs there is no contact for it to touch on the pack. **All the batteries are older models. They charge but I do not know how long they hold the charge. All the batteries are still available online. For the package I am asking \$175 plus actual shipping CONUS. (Will Consider all reasonable offers) Autotek Ltd. DU-500 Duplexer \$40 Three OHMITE L100J50R VITREOUS WIRE WOUND ENAMELED RESISTORS 100W 50Ω One has part of the tab missing. But still able to be used. \$35*
I accept Venmo or Zelle. (please contact me before sending \$\$)

Contact Bob, W8RID at w8rid.usa@gmail.com [10/23]

FOR SALE: Yaesu FT-2000 Transceiver with FH-2 Remote Control Keypad. Will come with original box, manual, & power cord, \$1000.00. **MFJ-976 1.5 KW Antenna Tuner**, \$150. **Ten Tec Century 21 Transceiver** with Crystal Calibrator, \$250. **Yaesu SP-767P Phone Patch/Speaker**, \$50. **MFJ-931 Artificial Ground**, \$100. **MFJ-4906S Duplexer 1.6 - 30 MHz & 50 - 54 MHz**, \$50 *Trying to clean up my shack.*

Contact: Bob, N8QE at rhajdak@aol.com [09/23]

FOR SALE: Ham Radio items from the Estate of N8IL – Neil Gerren 1. BK Precision 880 LCR Meter Looks close to brand new, includes TL8KC1 probe and TL8SM Probe (probes are new in sealed packages) Asking \$300. 2. Jennings UCSX-1000-15S Asking \$250 3. Powered 7-port USB hub Asking \$10 4. Weinschel 8200 Controller Asking \$100 5. Elenco 10hz-2.8Ghz freq counter and an Autek Research RF-1 Analyzer Not sure if working - \$2 for both! 6. HEIL Clamp mount w/extra cheapie mount \$5 for both 7. SDR Kits FA-VA5 600 Mhz Vector Antenna analyzer Asking \$65 8. "Not quite so Mini" Hot Spot Asking \$25 9. PS 30SW ii 30 amp Power supply Asking \$45 10. Small box that says "USB Radio" \$10 11. NEW-Coaxial Adapter kit (deluxe) in padded case Asking \$85 12. Diamond 2 position Coax switch – Asking \$25 13. Daiwa CS-201 2 position coax switch with "N" connectors – Asking \$25 14. Heil CC-1-XLR-YB Cable. XLR3 to Yaesu 8-pin round with PTT Asking \$20 15. Ten Tec Keyer Asking \$10 16. 2000Mhz, 90 db (1 db steps) attenuator – N connectors - Asking \$175 17. StepIR SDA 100 antenna controller ??? 18. Nano VNA \$20 19. Icom V82 handi-talkie Asking \$40 20. Icom ICT81A untested \$20 21. Yaesu FT-41R \$20 22. Yaesu VX5R Asking \$45 23. Yaesu FT-811 and FT-911 Both for \$25 24. HEIL Footswitch \$10 Much other Miscellaneous Stuff – HT's, cables, connectors - You'll need to stop by and take a look! All sales final, pick-up in Kent, OH at Casa de WB8LCD.

Contact: Tom Sly WB8LCD AT 330-554-4650 or EMAIL: tomsly29@gmail.com [09/23]

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: [11/23] indicates the ad will run until the end of November 2023.

Youth DX Adventure - Agnes, AD8IR

Agnes, AD8IR



I was thrilled to be a part of the 2023 Youth DX Adventure team. No, we didn't exactly go "DX" this year, but it was definitely a great adventure! The K3LR contest station is amazing, and I had an absolute blast! I like shiny radios and fancy antennas, and I wasn't disappointed on either front!



I've been contesting for a few years now, but this trip gave me a taste of what serious contesting can be. Tim K3LR challenged me to improve my technique and coached me to become faster and more effective. It was a great opportunity to learn from someone with that level of experience!

Operating was great, but we also had fun bonding as a team. The other kids are amazing operators, and we were able to talk radio, learn about each other's interests, and just hang out.

I'm grateful for all the people who helped make this a reality. I'd also like to thank all of the people at PCARS for your financial support of this amazing program for youth in ham radio.



Youth DX Adventure - Benedict, AD8FQ

Benedict, AD8FQ



I applied to join the Youth DX Adventure team at the beginning of this year, and I was pretty disappointed when I found out it was canceled. Fortunately, that all changed thanks to the generosity of Tim K3LR! A few weeks ago he opened up his contesting station to a team of four very excited youths, and we had a great time with our “local DX adventure”!



Our adventure began with a trip to DX Engineering. Every youth on the team - Katie KE8LQR, Grace KE8RJU, Agnes AD8IR, and myself - gave a speech to a very supportive crowd.

After our speeches, we drove out to Pennsylvania and received a personalized tour of Tim’s station. The K3LR station might just be the best contest station in the world. It really is a “Super Station!” The antenna towers are massive, the radios are all top of the line, and it’s equipped with everything you could want for world-class contest performance.



To begin our operation, I was selected for the 80 meter station. As it turned out, even all of that fancy gear couldn’t overcome the challenge of a closed band. I struggled to make even a few contacts that first hour. The next hour I moved over to 10 meters, which was marginally better, but I stayed dedicated and kept calling CQ.

When I rotated to 40 meters, I finally found a pileup. And 20 meters was even better. The contacts were flying in, and it was a thrilling experience! I had my lunch sitting untouched next to me, but I didn’t have time to take a bite. It was so much fun, I didn’t even care!



When I rotated to 40 meters, I finally found a pileup. And 20 meters was even better. The contacts were flying in, and it was a thrilling experience! I had my lunch sitting untouched next to me, but I didn’t have time to take a bite. It was so much fun, I didn’t even care!

I realize Western Pennsylvania isn’t exactly Curaçao, but I can’t imagine having a better time. I’d like to thank Tim K3LR, Jim AB8YK, Michael W8CI, Amy N8AMY, Teri K8MNJ and everyone else who helped make this experience possible!



Ohio POTA Meet Up

John, WG8X



On August 19th the first annual POTA Ohio Meet up was held. We had a good turnout of operators who came to operate, to socialize, and to just relax. If anyone was there, and came away hungry, they had only themselves to blame.

Held at Delaware State Park, it attracted a pretty decent crowd, some of who came in early, and camped out the night before. We even had not one, but two PCARS Members! Besides myself, Julie, WT8J and Tom, W8TAM drove down from Michigan. Julie is PCARS member 340.

This event was organized by Nathan, N8NI, and Kevin, W8NI (yes, those callsigns are correct), who I believe would like to make this an annual event. Stay tuned!



Flex Net

Rick, K8CAV
Flex Net Coordinator



Next FLEX Net will be Wednesday September 13th at 8:00 PM

The next PCARS Flex Net will be held on Wednesday September 13th at 8:00 PM. This month's net will be a Digital-Only net using the MFSK-16 mode, on 10 meters. Tune your transceiver's dial frequency to 28.118 MHz and center the MFSK-16 cursors at 1,500 Hz on the waterfall.

As this is a digital-only net, we will be using prosigns and Q signals to streamline net operations. The Digital Special Interest Group meeting on September 5th will be reviewing these procedures, and there is also a file named **Flex-Net-Digital-Operations.pdf** on the PCARS groups.io site, here: <https://groups.io/g/PCARS/files>

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

PCARS T-Shirts, Polo Shirts, Jackets, Hats, etc. can be obtained from:

Villager Business Solutions - attention Michelle Zivoder
8088 Main Street
Garrettsville, OH 44231

michelle@villagerbusiness.com

330-472-7304



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**

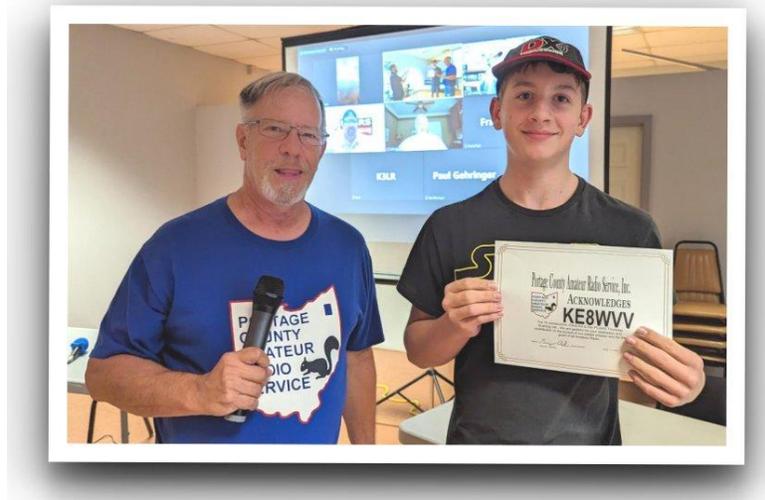
I am in desperate need for some net operators to run the Thursday night nets. It really is not that hard and it is fun, along with good training if you are ever needed for emergencies. I know we have been low on check-ins for the past couple of months. The commitment is only for once a month and this 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.

First quarter stats for 2023: 13 weeks - total contacts 267 average of 20 check ins per net Jan, Feb, Mar
Second quarter stats for 2023: 13 weeks - total contacts 321 average of 25 check ins per net April, May, June

September		October		November	
7	KE8BWA	5	N8QE	2	N8QE
14	KD8WCK	12	KE8ARB	9	KD8WCK
21	N8WCP	19	N8WCP	16	KE8BWA
28	KA8TOA	26	KE8LWO	23	NO NET
				30	KA8TOA



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



Congratulations to Ethan, KE8WV for achieving the 10-Consecutive PCARS Net Check-In Award

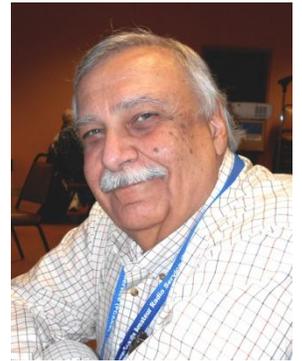


PCARS K8BF
The Club that puts the FUN in Ham Radio!



DX & Contesting Special Interest Group

Chuck, W8PT
DX & Contesting SIG Coordinator



Next SIG will be Tuesday September 26th at 7:00 PM

We held our DX/Contesting Special Interest Group meeting on Tuesday, Aug. 22 at the club site. We had 10 attendees.

The discussion this night centered around the Ohio QSP Party that would take place Saturday, Aug 26. It was reported that all the computers had been updated as well as the N3FJP Logging software. Since 10 meters has not been really active during this period, the operating positions would consist of 20m at Operating position #1; 40m at Op #2; 15m at Op#3 and 80m at Op #4.

We also took into account that there would be CW operators that would want to try making contacts, especially on 40 and 80. So we would make sure that they were given a chance.

I went over the rules with nothing really changing from last year. Bob, N8QE, gave his permission as Station License Trustee (Main Control Operator), for me to conduct this contest. If you are wondering about this, it seems that we have neglected to treat the License Trustee as the main Control Operator for the K8BF Station. So from now on, any contest run from the club site or for that matter, ANY operation from the club site must have the Station License Trustees permission. This person (N8QE in this case) must have prior notice of all instances where K8BF or ANY operation is planned from the club site and he is the one to give permission to the individual(s).

This whole thing is because the Club Station License Trustee is responsible for any and all on air operations from the station. He is the ultimate Control Operator.

I hope to see many of you there or attending by ZOOM. Join Zoom Meeting

<https://us02web.zoom.us/j/85790426465?pwd=YVBtUnhMaXVwNTN5amxsQnU0RnhDdz09>

Meeting ID: 857 9042 6465

Passcode: PCARS2022

Portable Ops Special Interest Group

John, WG8X
Portable Ops SIG Coordinator



Next SIG will be Tuesday September 12th at 7:00 PM

Our next portable operations SIG will be coming up on September 12th at 7:00 PM. We'll have more information about the upcoming PCARS Park-Pedition in October. Brandon, KE8ARB will be hosting this one.

We'll also be talking about OSPOTA. Whether you were hunting, or activating, let's hear those stories. We'll be meeting at PCARS World Headquarters this month. We start at 7 PM. The address is 705 Oakwood St, Ravenna, OH.

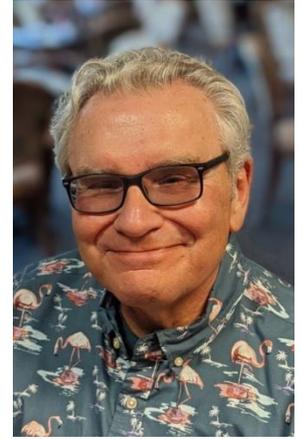
We will also be available via Zoom Here's the

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

Passcode: PCARS2022

Antenna Special Interest Group

Bob, N8QE
Antenna SIG Coordinator



Next SIG will be Tuesday September 19th at 7:00 PM

The next meeting of the PCARS Antenna Special Interest Group will be held September 19, 2023 at 7:00 PM. We will be in-person at the PCARS club site and on Zoom.

At the August meeting we helped Blair, KE8YBC program his new VHF radio, and discussed how to make a vertical HF antenna more efficient by adding more radials. We also talked about why the Diamond and Comet All Band “Airborne Dummy Load” Verticals can cover all bands, but not work very well for making contacts. We offered better alternatives for those with restricted space constraints.

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 antenna related projects with the group.

Join Zoom Meeting:

<https://us02web.zoom.us/j/87220356586?pwd=czgyLzRPejVBT2hPSkVIZU1VaU84Zz09>

Meeting ID: 872 2035 6586

Passcode: PCARS2022

Digital Special Interest Group

Rick, K8CAV
Digital SIG Coordinator



Next SIG will be Tuesday September 5th at 7:00 PM

The next Digital Special Interest Group meeting will be on Tuesday September 5th at 7:00 PM at the club site.

This month we'll be talking about the MFSK digital mode found in both fldigi and in other stand-alone apps. Additionally, we'll be reviewing procedures used in Digital-Only nets as a preview of this month's Flex Net using the digital MFSK-16 mode. We will also make time to answer any questions or help with any issues you may be having with digital communications by radio.

Can't be there in person? Then join us in the Zoom Meeting:

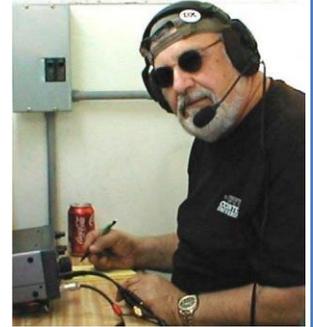
<https://us02web.zoom.us/j/88355094567?pwd=ZzRvd1hmQWNhYlZlZEcGFODVhuNlNiQT09>

Meeting ID: 883 5509 4567

Passcode: PCARS2022

Charlie the Tuner's HF High-Lites

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



Greetings DXers Charlie the Tuner's DX High-Lites

September is here and there are a lot of DX opportunities to work. There are some that are very rare and I know that many of us need them as our ATNO (All Time New One). So DXers, do yourself a favor and get on the air and Listen, Listen, Listen. Don't sell you station short because you don't have a fancy antenna or an amp to boost power. We are in a very good sunspot cycle and you may be able to snag a DX entity that you will not hear again for some time to come.

Let's see what we have coming this month and a few months after that.

Thanks to W1AW, W3UR & The Daily DX, DL5ON & The DX News Letter, DXNews.com, DX-World.Net, I1JQJ/IK1ADH & 425 DX News 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.

September...

9Q3, CONGO. Vladimir, OK2WX will be active as 9Q3WX from Democratic Republic of the Congo, until September 9, 2023. He will operate on HF Bands, CW, SSB, Digital Modes. QSL via IZ8CCW.

D44, CAPE VERDE. D44TWO will be active again from Praia, Santiago Island, IOTA AF - 005, Cape Verde, Cabo Verde, 2 - 17 September 2023. He will operate on HF Bands, CW, SSB, Digital modes and also using QO - 100 satellite. QSL via M0OXO, OQRS.

KH0, NORTHERN MARIANA ISLANDS. Uli, DL2AH will put Rota Island on the air until September 14 as KH0/DL2AH on 80 to 6 meters using SSB and FT8. QSL via DL2AH direct, LoTW or eQSL

LA, NORWAY. Chris, OE6CUD plans an extended road trip from mid-August until the end of October, visiting the islands Vaeroy (EU-055), Lofoten (EU-076), Vesteralen (EU-033), and Senja (EU-046). He will be QRV as LA/OE6CUD on HF CW and on QO-100. QSL via OE6CUD direct or bureau.

LX, LUXEMBOURG, LX90RTL marks the first longwave transmissions of Radio Luxembourg 90 years ago. QRV until the end of the year on HF (CW, SSB, digital modes) and via QO-100. Bureau cards will be sent automatically; confirmations also via LoTW.

T8, PALAU. Japanese ops JO3LVG and JM1LIG plan to activate T88MK and T88FM, from the VIP Guest Hotel's Palau Radio Club from September 12 to 19. JR3QFB plans to be there from September 12 to 17 and QRV as T88JH.

T32, EASTERN KIRIBATI. T32AZ. KH6QJ will be active again as T32AZ from Kiritimati Island, IOTA OC - 024, Eastern Kiribati, September 1 - October 17, 2023. He will operate on 80, 40, 20, 15 and 10m. QSL via home call.

V3, BELIZE. V3O Team will be active from Belize in WAE DC Contest, September 9-10, 2023. Team - DL8UD/V31KO and DK8MM/V31XT. They will operate before and after contest as V31KO and V31XT. QSL for V3O and V31KO via DL8UD. QSL for V31XT via DK8MM.

V4, SAINT KITTS ISLAND. W5JON will be active again as V47JA from Saint Kitts Island, IOTA NA-104, until September 12, 2023. He will operate on 160 - 6 m (Including 60m), SSB, FT8. QSL via home call direct, LOTW.

V5, NAMIBIA. Dieter, DL5GAN will be active as V5/DL5GAN until September 7 on 40 to 10 meters using CW, SSB and FT8. QSL via DL5GAN direct or bureau.

XZ, MYANMAR. Akio, JE2QIZ is QRV as XZ2B from Yangon until the end of September. Activity is on 15, 12, 10, and 6 meters using CW. QSL via JE3SIF.

And a Look Ahead...

4W, TIMOR LESTE. 4W8X Team will be active from Timor Leste, IOTA OC - 148, in Nov. They will operate 160 - 6m, CW, SSB, FT8 including activity in CQ WW DX CW Contest, 25 - 26 Nov in Multi Multi Category. They will operate also EME on 144, 432, 1296 mHz. QSL via DJ4MX.

9H, MALTA. Members of the Marconi Radio Circle and Central Radio Amateur Circle will be operating with special call 9H6XPO in Imtarfa from October 2 to 6.

BV, TAIWAN. BW2/JP1RIW is active as BM0QSO until Dec 31, using mostly digital modes. QSL via BM2JCC.

E6, NIUE. Stan, LZ1GC and Dimo, LZ1ON active as E6AM from Niue (OC- 040) Oct 10-23. Operating CW, SSB, FT8 and maybe some RTTY on 160-6 ms. QSL via Club Log's OQRS (preferred), LoTW, or via LZ1GC (direct or bureau).

FH, MAYOTTE. Marek, FH4VVK is here until June 2024 and QRV on the HF bands and 6 meters using SSB and FT8. He may soon be active using RTTY. QSL to home call.

FO, POLYNESIA. Didier, F6BCW is QRV as FO/F6BCW from Huahine Island, IOTA OC-067, until October 25. Activity is on 80 to 6 meters using CW and SSB. QSL via F6EXV.

FW, WALLIS AND FUTUNA ISLANDS. (Reminder) Jean-Gabriel, F4CIX, is QRV as FW1JG and expects to be here until January 2024. He is active on 40 to 6 meters using SSB and FT8. QSL via LoTW.

H40, TEMOTU. H40WA Team will be active from Temotu Province, IOTA OC - 065, Solomon Islands, 26 October - 9 November 2023. They will operate on 160 - 10m, CW, SSB, FT8. QSL via M0URX, LOTW, OQRS.

KH8/S, SWAINS ISLAND. This effort, postponed since 2020, is now scheduled for October 4 to 17 using the call sign W8S. Six stations are planned, using CW, SSB, RTTY and FT8, on 160 to 6 meters, with ops DL6JGN, PA3EWP, DL2AMD, PG5M, KO8SCA, PA4WM, PA5X, PA2KW, DJ9RR and NG7M. QSL via M0OXO.

JD1, MINAMI TORISHIMA. Take, JG8NQJ is QRV as JG8NQJ/JD1 until October 19. Activity is in his spare time using CW and FT8. Lately he has been active using FT8 on 17 meters around 2100z. QSL via JA8CJY

OY, FAROE ISLANDS. Col, MM0NDX, & Jonathan, MM0OKG returning here as OY/home calls at the end of Oct.

T2C, TUVALU. Team will be active from Funafuti, Tuvalu, IOTA OC - 015, 10 - 30 October 2023. Team - DG2RON, DJ7TO, DJ9KH, DJ9RR, DK3CG, DL1KWK, DL2RNS, DL4SVA, DL6KAC, DL7JOM, DL7VEE. They will operate on 160 - 6m Bands, CW, SSB, Digital modes. QSL via DL4SVA, LOTW.

TX, FRENCH POLYNISIA. TX6D Team will be active from Mahina, Tahiti Island, IOTA OC - 046, French Polynesia, 2 - 15 October 2023. Team - DL7DF, DK1BT, DL4WK, DL6SAK, DL7BO, DL7UFR. They will operate on 160 - 10m, CW, SSB, Digital Modes. QSL via DL7DF, LOTW.

TX, CLIPPERTON IS. TX5S Team will be active from Clipperton Island, IOTA NA - 011, January 18 to February 2, 2024. Team - Jacky ZL3CW, Dave K3EL, Steve W1SRD, Ricardo PY2PT, Gene K5GS, Heye DJ9RR, Laci HA0NAR, Walt N6XG, Rob N7QT, Glenn KE4KY, Chris N6WM, Arliss W7XU, Philippe FO4BM, Dave WD5COV Andreas N6NU, Nodir, EY8MM, Allan, EA3HSO. They will operate on 160 - 6m, CW, SSB, Digital Modes, including 60m Band. QSL via M0URX, OQRS. QTH Locator - DK50jh.

ZL7, CHATHAM IS. Jacek, SP5EAQ will be active as ZL7/SP5EAQ from Chatham Islands, IOTA OC - 028, starting 20 October 2023. He will operate on 80 - 10m, SSB, including activity in CQ WW DX SSB Contest, 28 - 29 October 2023. QSL via home call. QTH - Waitangi.

As I have said, keep in mind that these events can change due to various reasons that sometimes are out of the hands of those who are doing the planning. But there will be several DX entities on the air that many of us want in order to fill our DXCC coffers.

Get on the air and work some DX!!



Ohio QSO Party & BBQSO Party Open House



The annual PCARS Open House/Picnic which also includes running in the Ohio QSO Party is commonly known as the Ohio BBQSO Party was held on Saturday August 26th. If you missed it, shame on you. It was GREAT to see everyone there, get on the radio and play a bit in the Ohio QSO Party and to enjoy the Burgers & Brats from the grill.

If you did make it there and took any photos, PLEASE send them to me. I'll do a complete wrap up of the activities in the October issue of the newsletter with all the photos of the fun.

Send your photos and if you want, send a story of what fun you had to kb8uuz@gmail.com



If I waited until I had all my ducks in a row, I'd never get across the street. Sometimes you just have to gather up what you've got and make a run for it.

For most people when you lose your "khakis" you've lost your pants. When you're from Boston & lose your "khakis" you can't start your car.

ARRL Raises Dues, Makes Print Magazines Added-Cost Options

The ARRL Board of Directors approved a 20% dues increase and a major shift in member benefits at its July meeting. Starting next year, standard one-year dues will increase from \$49 to \$59, and will continue to include access to the digital editions of all four ARRL publications, *QST*, *On the Air*, *QEX* and the *National Contest Journal (NCJ)*.

However, print editions of the magazines – including *QST* – will become added-cost options at \$25 per publication per year, bringing the cost of a traditional one-year ARRL membership with print *QST* to \$84.

According to a letter to members from ARRL President Rick Roderick, K5UR, it is the League's first dues increase in 22 years.

In addition, new life memberships were put on hold while the staff determines how to make the program self-sustaining once again. This move also eliminates the time-honored tradition among ARRL members of jumping in to life memberships just before a dues increase.

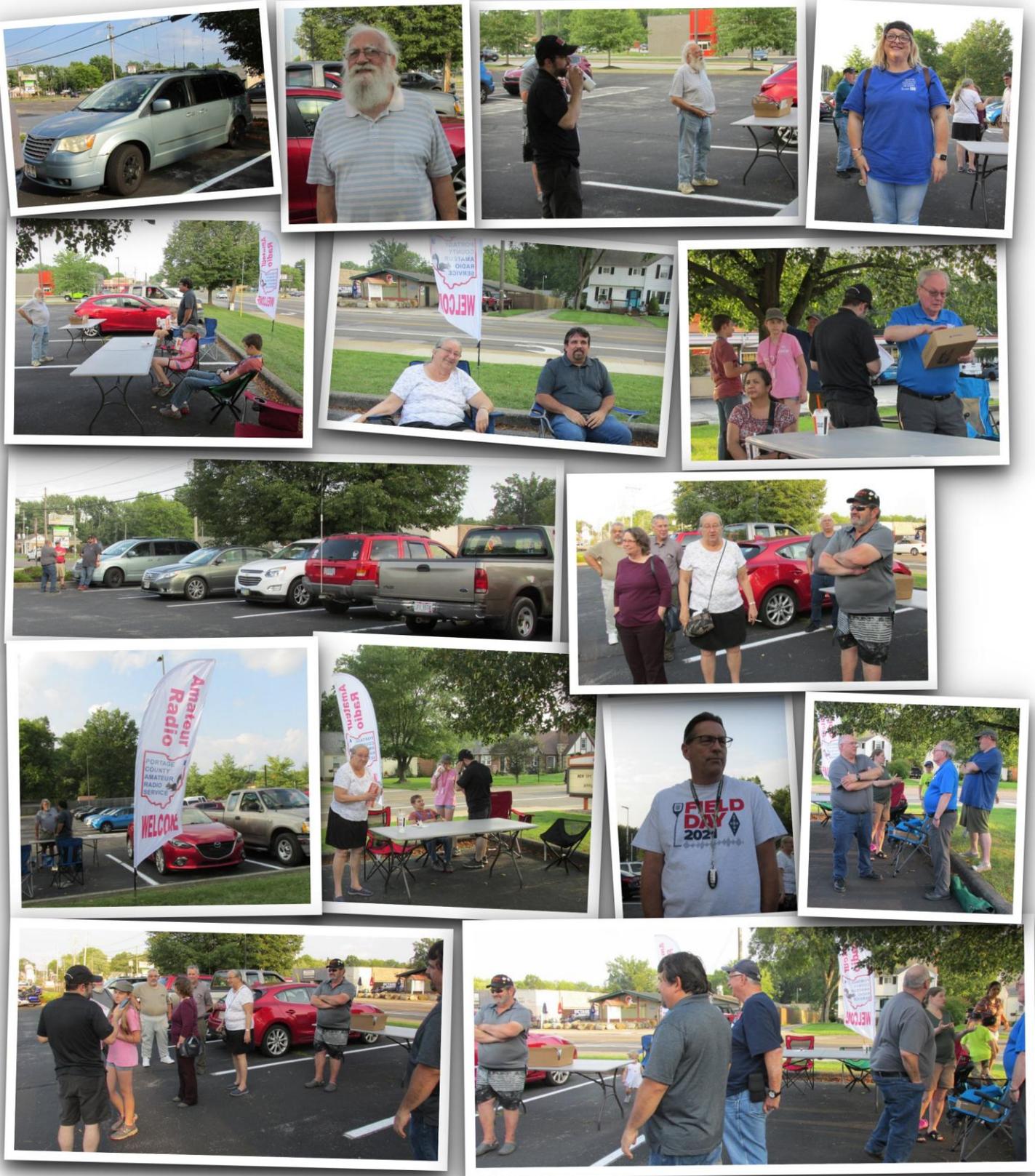
A video on accessing the League's digital publications – "*How to View ARRL Magazines Digitally*" – is on the ARRL YouTube channel at <https://tinyurl.com/bd4nvyrr>.

Bill to Pre-Empt HOA Antenna Restrictions Reintroduced in Congress

A Republican Congressman from Ohio and a Democrat from Connecticut have jointly introduced a bill to force homeowners' associations (HOAs) to allow amateur radio antennas in the developments that they control. HR 4006 would remove private land use restrictions that prevent amateur radio operators from installing and using "reasonable antennas" on property that they own or control.

This month's "Learning Curve" column is devoted to the bill and recommendations for encouraging your congressional representative to support it. The full text of the bill may be found at <https://tinyurl.com/vtvputst>.





PCARS - Annual Cruise-In - August 10, 2023

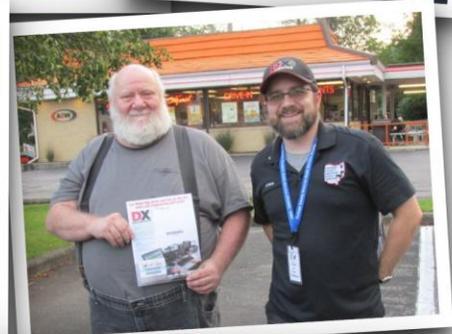


10 Aug 2023



PCARS





Photos from the August PCARS Meeting



PCARS - 14 August 23



PCARS - 14 August 23

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 79 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 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.



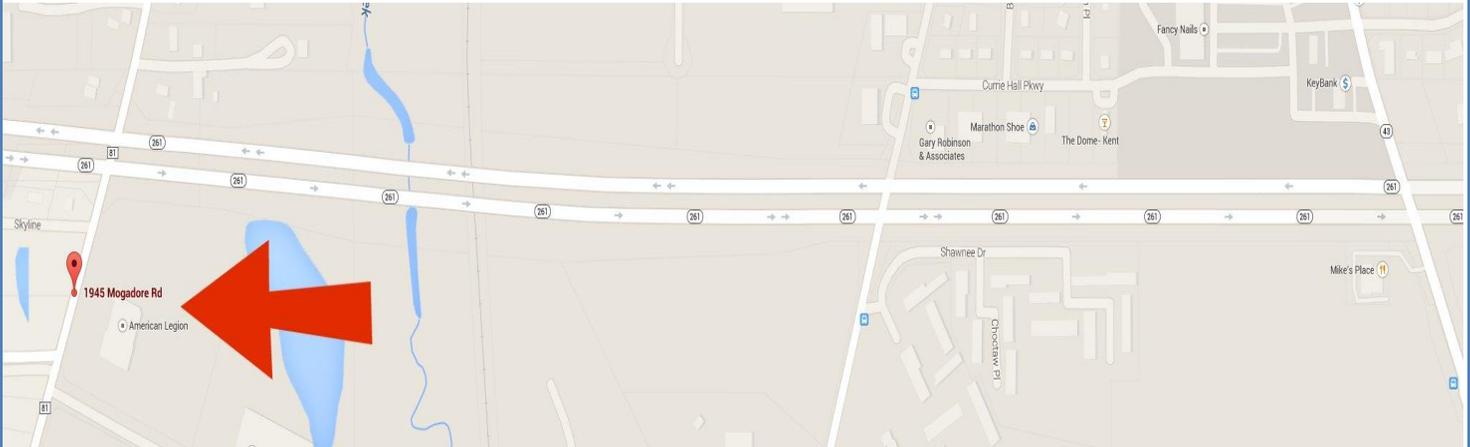
PCARS Meetings

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 October 7th at the club site starting at 10 am.

**Future Dates in 2023:
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"
- **17 years old or younger? VE Fee is \$5** per the ARRL reduced CE fee Youth Program
- **FCC License Fee \$35** - payable after FCC sends you a link. **DOES NOT APPLY to upgrades**
- **17 years old or younger? ARRL will reimburse you the \$35 FCC Fee**

Okay - now all the Details:

- 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 optional.*
- No food or snacks allowed.
- 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).
 - **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



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.

- o Original and copy of a pre-March 21, 1987 Technician license (this provides credit for the Element 3 [General] exam) - you **must** be currently licensed to get this credit.

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

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

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

As of **May 20, 2021**, all amateur examination applicants are **required** to provide an FCC Registration Number (FRN) to the Volunteer Examiners (VEs) **BEFORE** taking an amateur exam. This is necessary due to changes the FCC has made to its licensing system. Applicants will create an FCC username and account, respond to the verification email from FCC, and then register for the FRN. Register on the FCC's Commission Registration System (CORES): <https://apps.fcc.gov/cores/>

Email Addresses REQUIRED

As of **June 29, 2021** all applications will be required to contain an email address for FCC correspondence. Applicants will receive an email direct from the FCC with a link to the official electronic copy of their license whenever a license is issued or changed. ARRL VEC suggests that those without access to email to use the email address of a family member or friend. Licensees will be able to log in to the ULS using their FRN and password to download the latest version of their license at any time. The FCC no longer provides paper license documents.



FCC - \$35 Amateur Application Fee

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 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 **17 years old or younger** for tests administered under the ARRL Volunteer Examiner Coordinator (VEC) program.

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 17 years old or younger 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 17 years old or younger, regardless of the exam level taken. Proof of under 18 status is required.

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

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The Federal Communications Commission (FCC) retired the [Legacy version](#) of its **CO**mmission **RE**gistration 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>)

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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 (ARRL) immediately.

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

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

Printing Your FCC License

Print an Official or Unofficial Copy of Your Amateur Radio License

Information provided by Anthony Luscre, K8ZT

As of February 17, 2015, the **FCC no longer routinely issues paper license documents** to Amateur Radio applicants and licensees. The Commission has maintained for some time now that the official Amateur Radio license authorization is the electronic record that exists in its Universal Licensing System (ULS). The FCC will continue to provide paper license documents to all licensees who notify the Commission that they prefer to receive one.

Licensees also will be able to print out an official authorization — as well as an unofficial “reference copy” — from the ULS License Manager.

I've created a set of instructions on how you can request an “official” printed copy of your license* [Click here to download the instructions](#)

Class Date	Upgrade Date	Exam Date	Expiration Date
01/01/2000	01/01/2015	01/01/2000	01/01/2015

File Number	Operator Privilege	Status Privilege
0000000000	Advanced	PRIMARY

THIS LICENSE IS NOT TRANSFERABLE

John Q. Amateur
(Licensee's Signature) FCC 065 - May 2017



The Portage County Amateur Radio Service, Inc. (PCARS) announces the 16th annual

Ohio State Parks On The Air



16th annual **Ohio State Parks On The Air** contest

Saturday, September 9, 2023, from 1400 UTC to 2200 UTC
(10 am to 6 pm Eastern Time)

There are **75** Ohio State Parks
Make a day of it and join us in the **FUN!**

Visit a beautiful Ohio State Park
and have some
Amateur Radio Fun at the same time!



Rules? Entry Forms? Logs? Ohio State Park Information?

Check out **all** the details at: www.OSPOTA.org

Also, visit the OSPOTA IO Group at: <https://groups.io/g/OSPOTA>
While you're at it, check out the PCARS web site at: www.portcars.org



2023 FINDLAY HAMFEST

Vendor set-up 6AM.
Doors open at 8AM.

SUNDAY, SEPTEMBER 10

Hancock County Fairgrounds
1017 E. Sandusky St., Findlay, OH 45840

41.036717
-83.631166

\$10 Admission

\$20 Vendor Table (\$15 additional tables)

\$10 Flea Market Space

\$15 Overnight fee

CONTACT US:

Talk In: 147.15+ (PL 88.5)
444.15+ (PL 88.5)

Phone: 419-423-3402

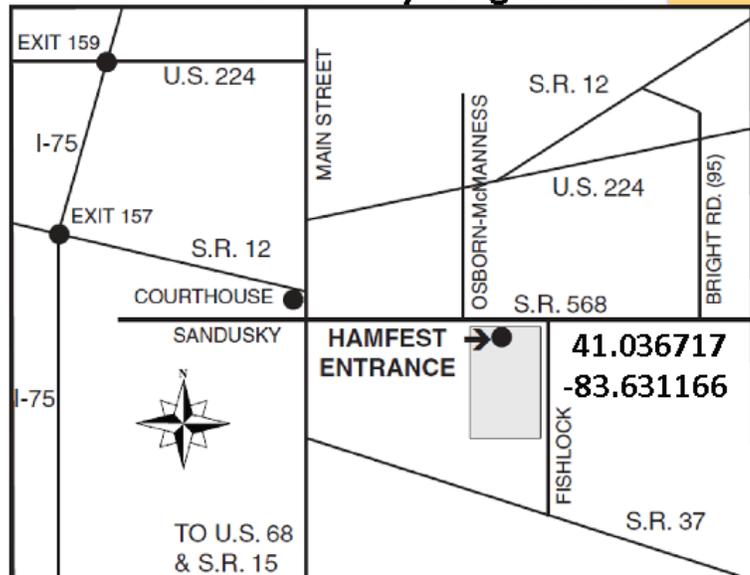
www.findlayradioclub.org/hamfest
hamfest@findlayradioclub.org



Box 587 Findlay, OH 45839
Organized in 1925

**RAIN OR SHINE
FREE PARKING**

Hancock County Fairgrounds



For more information and online ticket sales, just point your cell phone's camera on this QR code.



~ Amateur Radio Instruction Class ~

The **Portage County Amateur Radio Service, Inc. (PCARS)**

is sponsoring an Amateur Radio **Technician** course

that will enable *You* to obtain
Your **FCC Technician** license as an

AMATEUR RADIO OPERATOR

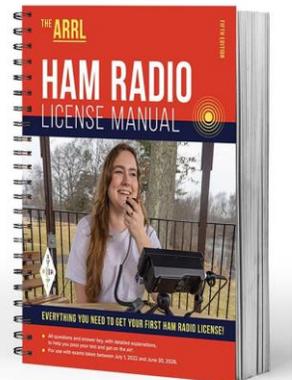


When: Wednesday evening 7:00 p.m. – 9:00 p.m.
October 4, 2023 through November 15, 2023
7 weeks. Official Amateur Radio License testing
will be held at the end of the course (Nov 15th).

Where: At the **PCARS Club Site**
located at:
705 Oakwood St. in Ravenna
Entrance by Big Tower

Cost: **\$25.00 Registration fee.**
(No Registration Fee for PCARS Members)
Text – ARRL “Ham Radio License Manual”
(text may be purchased first night of class
or may be purchased from DX Engineering)

Registration: By email to Jim, AC8NT
Information: Contact Jim Wilson, AC8NT
e-mail at: jawilson@j3solutions.com
phone at: **330-342-8149**



As a licensed **Amateur Radio Operator** you will be able to

- **Contact other ham radio operators in the area and around the world**
- **Serve your community – ham radio operators are the critical communication link during disasters and emergencies**
- **Participate in a fascinating and rewarding hobby**

THERE WILL BE A FIVE STUDENT MINIMUM (or no class will be done)
Class will also be available via ZOOM

Contact Jim Wilson, AC8NT to make your reservation NOW

Jim Wilson - AC8NT, at jawilson@j3solutions.com or by phone at 330-342-8149



HamSCI

WE NEED YOUR HELP! **October 14, 2023, and April 8, 2024**

The HamSCI Festivals of Eclipse Ionospheric Science
Inform and Encourage Clubs and Hams To Participate in This Event!

What: The Solar Eclipse QSO Party (SEQP)

When: **October 14, 2023, and April 8, 2024**

Where: Operate CW, SSB, FT4/8, and even WSPR and FST4W. Non-WARC bands 6-160 meters.

Why:

- Help better understand how the ionosphere works!
- How do disturbances such as solar flares, geomagnetic storms, and traveling ionospheric disturbances affect radio wave propagation?
- How does ionospheric science help amateur radio operators improve communications?
- How can I use my existing radio equipment for science initiatives?
- Have fun in a friendly HF competition. And there are other experiments as well!

Who: Volunteer amateur radio operators, short wave listeners and science researchers from multiple universities.

The SEQP is conducted by HamSCI –The Ham Radio Science Citizen Investigation -- HamSCI serves as a means for fostering collaborations between professional researchers and amateur radio operators. It assists in developing and maintaining standards and agreements between all people and organizations involved.

How:

- Sign up [here](http://www.hamsci.org/contest-info) and participate! (www.hamsci.org/contest-info)
- **Get on the air on October 14, 2023, and April 8, 2024, before, during and after the eclipse regardless of your QTH.**
- Log your QSO's in a Cabrillo format.
- Submit your logs to www.hamsci.org/contest

For more information:

About HamSCI: www.hamsci.org

About The Festivals of Eclipse Ionospheric Science: www.hamsci.org/eclipse

Contact: Ed Efchak WX2R, Public Information Officer: pressrelations@hamsci.org

The ARRL is a partner of HamSCI and the SEQP. HamSCI receives funding from NASA, The National Science Foundation and Amateur Radio Digital Communications.



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, KB8UUZ, KA8TOA, WB8LCD, WG8X, N8SY, W8CI, K8CAV, WB2RPW, NO8D, WA8AR, W8NET, AD8IR, AD8FQ, W8PT, N8QE, K8ZT, INDEXA, The ARRL, CQ Magazine Blog and the World-Wide Web

With *your* continued help – we can keep making this a *great* newsletter.

I want to thank all of the people that over the years sent in articles and photos for the newsletter. I really appreciate all that continued support.

PCARS started in Nov of 2005, and plans were made by the founders to have the first meeting in January of 2006 that was open to the public. That gave me some great material for the first newsletter that came out in February of 2006. Since then, there have been (including this newsletter) 213 newsletters published. All of them are available to view on the PCARS website. We keep them there as a continuing source of the PCARS history.

I especially want to thank my XYL - Peggy, KB8SZI for understanding all the late nights with me working on the newsletter over the years.

You can look on the last page of this newsletter to see what awards our club newsletter has received over the years from both the ARRL Ohio Section and the ARRL Great Lakes Division. The award certificates are posted on the club site for all to see.

I will be stepping down at the end of the year as the Editor with my last issue in December. Starting in January of 2024, James "JC" Wilson, KC8JC will be taking on the task of being the newsletter editor. I would encourage you to keep sending in your newsletter inputs and photos so JC can keep up the monthly issues. The look may change, but the club goes on and I am confident that JC will do a great job. I will now have a bit of time to get my radio room back in shape and get on the air more often.

“Parky”, KB8UUZ



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

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

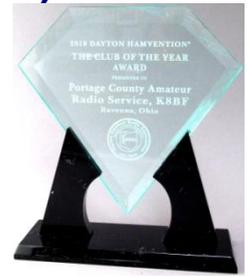


PCARS meets the second Monday of each month at the **Kent American Legion Post 496**,
1945 Mogadore Rd. - just South of Rt. 261 - Enter the rear of the building for the meeting room.

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	AC8NT Jim Wilson
	Field Day Chairman, 2022	WA8AR Tony Romito
	FYAO Chairman	W8PT Chuck Patellis
	Historian	KB8SZI Peggy Parkinson
	K8BF Callsign Trustee	N8QE Bob Hajdak
	K8BF QSL Manager	N8QE Bob Hajdak
	Membership Chairman	
	Net Control Coordinator	KA8TOA Greg Ash
	Newsletter Editor	KB8UUZ Tom Parkinson
	OSPOTA Chairman	KB8UUZ Tom Parkinson
	PCARS Photographer	AD8IR Agnes Wagner
~ Meetings & Net ~	Public Information Officer	
2nd Monday of each month. 7pm Thursday night Club Net at 8 pm on 146.895	Secretary	KE8EGF Paul Hyland
	Social Media	N8WCP Mike Szabo
	Tech, Gen & Extra Class Mgr.	AC8NT Jim Wilson
	Volunteer Examiner Liaison	KB8UUZ Tom Parkinson
	Webmaster	WG8X John Myers

PCARS Volunteer Examiner Team Members	Call Sign	Name
KB8UUZ		Tom Parkinson
AC8NT		Jim Wilson
AC8QG		Nick Wagner
N8QE		Bob Hajdak
KA8TOA		Greg Ash
WA8CCU		Al Nagy
N8FUM		Dan Torchia
KC8JC		James "JC" Wilson
W8EC		Mark Haas
K8IG		Fred Freer
W8HFZ		Tim McLeod
K8PJW		Phil Weiss
N8XTH		Deron Boring
K8IV		Ed Polack
N8AMY		Amy Leggiero
W8PT		Chuck Patellis
KP4VZ		Mike Gonzalez



PCARS Volunteer Examiner Team Members



THE RADIOGRAM

PCARS Incorporated
Nov. 1, 2005

First Meeting
Nov. 14, 2005



ARRL Affiliation
April 20, 2006



Special Service Club
March 22, 2010

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