



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

October 2023 - Volume 18 Number 10



Have A Fun
and SAFE
Halloween



PCARS K8BF

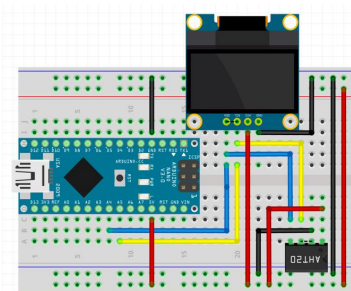
The Club that puts the FUN in Ham Radio!





Feature Articles

Randy Wilson, N6TL - SK	3
From the PCARS President	4
From the PCARS Vice President	5
From the ARRL Great Lakes Director	7
From the ARRL Great Lakes Vice Director	8
From the ARRL Ohio Section Manager	9
ARRL Member Bulletin - Voting for GL Director	10
OSPOTA 2023 - Log Checking	11
Tech Tips - Basics of Arduino	12
From the ARRL	15
ARRL Foundation	18
Support Your Parks Weekend with K8BF	19
New Club-Level Awards from the ARRL	26



Regular Departments

Coffee Cup - Limited Edition	6
PCARS IO Group	14
Happy Birthday PCARS Members	14
Swap-N-Shop	17
PCARS Patches & Stickers PCARS	20
SIG - DX & Contesting	21
SIG - Portable Operations	22
SIG - Antennas	22
SIG - Could Be Anything	23
Charlie the Tuner's HF High-Lites	24
Photos from the Sept PCARS Meeting	27
Member Ham License Plates Wanted	29
PCARS on YouTube	30
Print a copy of your Ham License	33



Mark Your Calendar

Schedule of Events	6
Hamfest Calendar	14
Net Info & NCS Schedule	21
Meetings, PCARS	30
VE Test Information & News	31
Technician Class Flier - Starts Oct 4th	34
ARRL On-Line Auction Flier	35
HamSCI Eclipse Flier - Oct 14th	36

Finals

Thanks & 73	37
Fine Print	38

Portage County Amateur Radio Service



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Randy Wilson, N6TL - SK

I'm sorry to say that Randy Wilson, N6TL - PCARS Charter Member #12 passed away while receiving hospice care at home on Sunday, September 24th from complications from Dementia and Parkinsons.



I have not gotten the obituary from his local newspaper yet, so I'll write a few of my thoughts about my friend.

Randy lived in Antelope, California with his wife of 53 years, Debbie. He did manage to get into a few PCARS nets over the years and even ran one of the Thursday evening nets as the Net Control Operator via EchoLink.



I met Randy in 1973 while I was in the Navy at Point Mugu Naval Air Station. I attended a local RC Airplane club (the Camarillo Flying Circus) meeting. At that time Randy, Debbie and their son lived in Ventura, CA. Randy and I talked a bit about flying RC planes. That chance meeting started a great friendship that lasted throughout the years. After the Navy, I was able to visit him in Antelope, CA (suburb of Sacramento) while on



business. We enjoyed fishing for Trout near Donner Pass and even managed to visit a few casinos in Reno, NV.

In 1979 both Randy and I got Radio Shack TRS-80 computers. We built our own acoustic modems and were able to leave messages for each other on a Bulletin Board System (BBS) located in Oklahoma. By being in Oklahoma, we were able to keep the phone charges down. A lot different than it is now-a-days.



Randy did make a trip to Ohio and we were able to go to two hamfests - Good Year and Canfield which just happened to be having their hamfests on the same day. Randy knew I was into ham radio and I convinced him to get his license. He managed to get to Extra Class prior to the 20 wpm requirement going away.

His home station was set up in the garage using a Radio Shack 10 meter radio and dipole. What a thrill it was when we were able to have QSOs on 10 meters. I really enjoyed that with him.



I only wish the rest of the club members would have had the chance to meet Randy in person. I will miss him very much. He was a really good friend. de KB8UZZ



N6TL

Nevada Co. Grid CM99
71361
Ten-Ten
Former KF6YJI

73 from Randy Wilson
3741 Light Foot Ct.
Antelope, CA 95843 USA

CONFIRMING QSO WITH				
Date	UTC	Band	RST	2X
		10 M		SSB

Pse QSL Trx 73

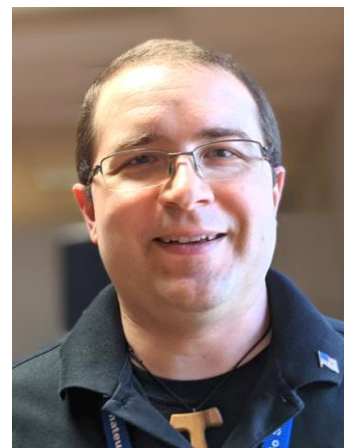
□ Home QTH - Sacramento Co.: ANT: 10M Dipole - 15 Ft. RIG: HTX-10 - 25 W
□ Portable QTH - Nevada Co.: ANT: 10M Dipole - 25 Ft. RIG: HTX-10 - 25 W



From the President



Nick, AC8QG
PCARS President



Wagner Family OSPOTA Report

“Well that was a lot of fun.” — Agnes, AD8IR

Agnes’ quote sums it up pretty well. The Wagner family teamed up with the Mercer family, and we enjoyed good radio and good food. We all had fun, and that’s the point!

Thank you to everyone that contacted us at West Branch!

Center of Hope Fundraiser

Every year PCARS members step up and show amazing generosity during our Center of Hope fundraiser. I know I’ll see more of that same generosity this year. But you can make an even bigger impact by spreading the word and asking your friends, family, neighbors, and co-workers to chip in too.

Head over to our homepage, click the Center of Hope donation button on right and add a few dollars to the cause. Then send the link to people you know. Tell them why this is a good cause that makes a positive impact in our community. With your help, we can make this another great year for our fundraiser and our community!

Upcoming Elections

I’ve done a lot of work and had a lot of fun as your PCARS president, but my time is coming to an end! It’s time for the next chapter in the PCARS story and you can be part of it. This is your time to help shape the future of our club. It’s your opportunity to take the “Big Fun” forward for the next year.

Please seriously consider running for an elected position. PCARS is counting on you!

Time to renew your membership!

Renew now; relax later. I just renewed for myself and three kids, and it only took about 2 minutes. So, get it done and check something off on your to-do list!



From the Vice President



Jim, AC8NT
PCARS Vice President



We have had some fun this month with several items

1. We designed and built the next generation tape measure yagi. This version cost less and includes a receiving attenuator for use in fox hunting that can be bypassed for transmission. I have made up a kit with the antenna and a modified baofeng handheld just for fox hunting. It can be safely lent to non-licensed operators (scouts and other groups) without fear of transmission.
2. I have also built my next generation fox that uses a modified handheld for transmission. A combination of programming the handheld and use of attenuators produces an output signal of about .1 watts. Perfect for fox hunting.
3. Our EchoLink system died. It has been rebuilt and upgraded. Also built was a complete backup of the system that can be swapped out in the event of a future failure.

I love finishing projects.



PCARS Elections

On another more serious note. **PLEASE** consider running for President, VP or Trustee at the November elections. The club has over 170 members but, it seems, we only have a few that do the real grunt work of managing our great club. This is not unusual for any club but if we want PCARS to stay a great club, we need a little more involvement. There is work involved, but there is also great satisfaction in supporting our organization. Please consider running.

Winter Is Coming !

Remember winter is coming. Get those antennas ready so you can enjoy our great hobby when the nights are long, and the weather is cold. Have fun, get on the air, and make some contacts.



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Schedule of Events



October 2nd - Board Meeting at PCARS Club Site - 7 pm
 October 4th - Tech Class Starts - see flier
 October 7th - VE Testing at the PCARS club site ni Ravenna - Starts at 10 am
 October 7th & 8th - California QSO Party
 October 9th - PCARS Meeting at Kent American Legion - 7 pm
 October 20th - Scouts Jamboree On The Air begins
 October 31st - Halloween - Be careful when driving - small goblins abound!
 November 6th - Board Meeting at PCARS Club Site - 7 pm
 November 13th - PCARS Meeting at Kent American Legion - 7 pm ELECTIONS and Center of Hope Drawings
 November 14th - PCARS 18th Birthday !!!
 November 15th - Tech Class over - VE Testing at 7pm - Walk-Ins Welcome



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



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



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

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



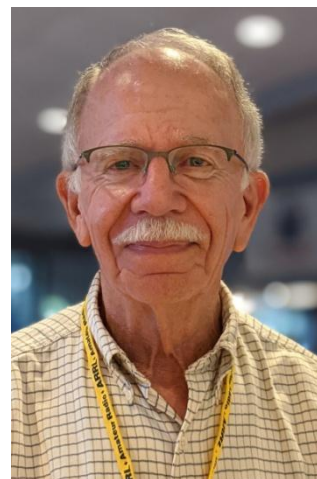
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From the Great Lakes Division Director



Dale, WA8EFK
ARRL Great Lakes Division Director



**Greetings, welcome to "Dale's Tales" for
October 2023**

At two recent Hamfests, I had questions about the proposed changes to the 60 Meter Band. There was no update available at that time, but that has now changed.

On Friday September 29, the FCC published in the Federal Register Notice of the 60-meter Notice of Proposed Rulemaking adopted last April. This sets the comment deadline as October 30, and the reply comment deadline as Nov. 28. You may now submit comments to the FCC supporting ARRL's request for a 100-watt limit and continued access to the 4 channels that otherwise will be deleted. The FCC's Notice on the 60-meter matter is ET Docket No. 23-120 at paragraphs 37-53, link: <https://tinyurl.com/43dyjekf>.

As this announcement was released late on Friday it is suggested that interested amateurs monitor the ARRL web pages for updates.

ARRL will continue to advocate to maintain the 100-watt limit for 60 meters, continued authorization for the four channels outside the WRC allocation that are being used today, and adoption of the new 15 kHz allocation with the same 100-watt power limit. Your support of this position in your comments to the FCC would be helpful.

Great Lakes Division Director Election. The electronic ballots have been sent out and the mail ballots should soon be in your mailbox. You may use either, your choice - only one will be counted, of course. I chose the electronic route and my vote was acknowledged by ARRL in just a few short minutes.

Please, your vote truly does matter. It is important that you make a carefully considered decision and cast your ballot.

License Renewal Help: ARRL produced a helpful video in September about license renewal. It had 4000 views in the first 4 days. Titled "How to RENEW your FCC Amateur Radio License", it takes you through a step-by-step process of renewing and covers all of the new requirements for filing. It is accessible at: <https://www.youtube.com/watch?v=DI8nmjRJg4>

Club Services: <https://www.arrl.org/library-resources> contains the directory of available ARRL Videos for use as programs at your club meetings. These videos are great introducing new modes, services and tech topics. This library of topics will be expanding as more material becomes available. Check it out.



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From the Great Lakes Division Vice Director



Scott, N8SY
ARRL Great Lakes Division Vice Director



Greetings, October 2023

Wow... Where did September go? I've had a blast going from Kentucky, where we had a really great hamfest and ARES Summit. To just about all 4 corners of Ohio to even central Michigan, visiting with all of you at club meetings and hamfests. It's been absolutely great getting to meet new friends and remembering those great times with old friends for sure. I even took a trip out to Connecticut to help with the latest Section Manager training as well !!

Shifting Gears... I want to let you all know about a really great program that can help your club get money. It's called the Club Commission Program that the ARRL has expanded. Want more details on this? There's a great new video that was produced for ARRL by Anita Kemmerer, AB1QB in the ARRL Learning Center. This video is about 21 minutes long and goes step by step through the process of how to get this all setup for your club. If your club isn't doing this program, why not? It's FREE money. Here's the URL: <https://learn.arrl.org/webinars/?pathPage=%2Farrl%2Fcourses%2F52440>

Shifting gears again... I've heard from some of you out there that you are having a terrible time finding, and then downloading the digital QST Magazine. So, I want to say that there's a video that helps members navigate our digital magazines. This video is helping our members get more out of their digital magazine experience. ARRL members all have digital access to four high quality magazines: **QST**, **On The Air**, **QEX**, and **NCJ**. If you have questions or concerns about how to get the most out of the digital editions, this new video on the ARRLHQ YouTube channel will help walk you through it.

If you download the ARRL Magazines app for Android or iOS, ARRL will send a notification to your device when a new edition is available for reading. The video may be viewed at the following link: <https://youtu.be/vmZfIC2IUIs>

Special Recognition goes out to the following Great Lakes Division Clubs for reaching a milestone anniversary.

- 75 Years - CLARK COUNTY ARA - Ohio - Adrian Amateur Radio Club – Michigan
- 50 Years - Kentucky Mountains ARC - Kentucky and Crawford County ARC – Ohio
- 25 Years - Medina County Amateur Radio Club - Ohio and Central Ohio Operators Klub - Ohio
and Capital City Repeater Assn – Ohio

Shifting gears again... Is your ARES group getting ready for S.E.T.? The Simulated Emergency Test (S.E.T.) is October 7-8 and next to Field Day, one of the busiest times for ham radio! Is your ARES group or club already in the planning stage yet?

Shifting gears to come into the pits... Whelp, that's going to do it from here this month. Stay safe and "Catch Me On The Air" at a hamfest or your next club meeting.

Hey, don't forget to participate in your local club's activities!!!! It's important to be a part of your club and ham radio, and not just a reporter.



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From the ARRL Ohio Section Manager



Tom, WB8LCD
ARRL Ohio Section Manager



Notes from the ARRL Ohio Section Manager

Another month is gone! I've heard some people say that they were just "killing time". Unfortunately, that's not the way it works. Time is killing me and you. The only way to get your money's worth is to make every minute, every day, every month count. The best way to do that is to be involved with people you like, doing things that you like to do and are important to you.

Reading, especially non-fiction, is almost always useful. There's lots of good stuff to read out there, and I'm willing to wager there is lots of good stuff just waiting to be read at your house and in your shack! The days are getting shorter, it'll soon be getting colder – use this season to read and improve your capabilities as an Amateur Radio operator. We're always all about improving the equipment we use. Spend some time reading, and learning, and improving the "operator" of that equipment. Take that information and get on the air. Try different things. Read, learn what every button on your radio is and how to use it, then take that knowledge and make that radio do all the magic it has in it! Experiment with all the hardware and software you've probably got laying around. Even us older hams can make some pretty significant discoveries that will push both us and the hobby forward. Each of us have only so many minutes allocated to our lives – try not to waste too many of them!

I have yet to receive my paper ballot for the Great Lakes Division election, but I have it on my agenda for Sunday to get my ballot submitted electronically. I might want to suggest that you do the same.

If you looked at the Ohio Section Hamfest schedule for the rest of the year, we've currently got 2 to go! Over the last few years the Massillon fest has been pretty good – well attended and in an outstanding venue! That's October 29th – weather could be a factor, but I'll say worth the trip.

I also want to put in another plug for the Ohio Section Youth Net, which comes up again on Sunday October 8th. If you know some young ops, tell them about the net, help them get set up on Echo-Link if you're not near the NE corner of the state and get them on the air with us. This is also open to "potential" young ops you might know, invite them into your shack, introduce them to the magic of radio, and be the control operator to get them on the air with us. I was also talking to a ham at the Cleveland Hamfest last week who was talking about starting a net for "New Hams" so that they would have a chance to get on the air, get some training and not be intimidated or reprimanded by rookie mistakes! Fantastic idea, and as I hear more about it I'll let you know.

You may not be a new ham, but maybe you've never run a net before. I would like to encourage you to volunteer for being Net Control Station (NCS) for one of your local nets. Lots of good reasons to do that. First off, it's another skill that could be important to have. We all talk about Amateur Radio as a back-up communications service in times of emergencies, and when that emergency happens, you just might be the guy that's needed to run the net. What are you gonna say? No? That's not acceptable! Neither is "on the job training" during an emergency. Give it a try in a non-threatening situation. It'll be difficult at first. Soon you'll be comfortable with it and before you know it you'll be awesome at it! And that's what you want to be able to do when the public is counting on you.

How about "traffic handling"? Familiarize yourselves with the National Traffic System (NTS). Earlier in this newsletter David Maynard WA3EZN has an article which walks you through what you need to know about a "Radiogram". A Radiogram is the message form used by the NTS for passing formal radio traffic through the system. It's important to know if you need to use it. Not something you want to learn in the midst of the emergency.

Back to the beginning, these are things you can use your time to learn and practice. It will make you a better ham. In the right circumstances it will make you an appreciated ham. Or you could just spend your evenings "killing time". It's all up to you.....

ARRL Member Bulletin



September 29, 2023

Dear ARRL member,

Email messages are being sent to members indicating that the online voting site for the 2023 ARRL Great Lakes Division Election is now open. The message will include instructions to access candidate statements, the ballot, and to vote.

A third party was selected by the ARRL Ethics and Elections Committee to conduct the election: **Election Services Co. (ESC)** of Melville, New York. This same company conducted ARRL elections in 2022. Some background about the effort to include an option to use electronic ballots can be found in the October 2022 issue of *QST* magazine, page 63, in the article "Modernizing the ARRL Division Director and Vice Director Elections."

Please watch your email for the message from **Election Services Co.**

The email message will include the following header:

From: ARRLElection@mg.ElectionServicesCorp.com

Be sure to check your Inbox, and folders for spam and junk, to make sure you do not miss this message.

Tip: if the link included in your message from Election Services Co. does not work, try copying the web address into your web browser to load the page.

Should you need any assistance with voting, please contact the helpdesk for Election Services Co.:
Telephone 866-720-4357 email ARRLElection@ElectionServicesCorp.com

You will also be receiving a paper ballot in a few weeks, which you can use if you prefer to vote through the mail. Please note that only one vote per member will be counted.

73

David A. Minster, NA2AA
Secretary, ARRL

ARRL Member Bulletin



OSPOTA 2023 - Log Checking



Tom, KB8UUZ
OSPOTA Chairman

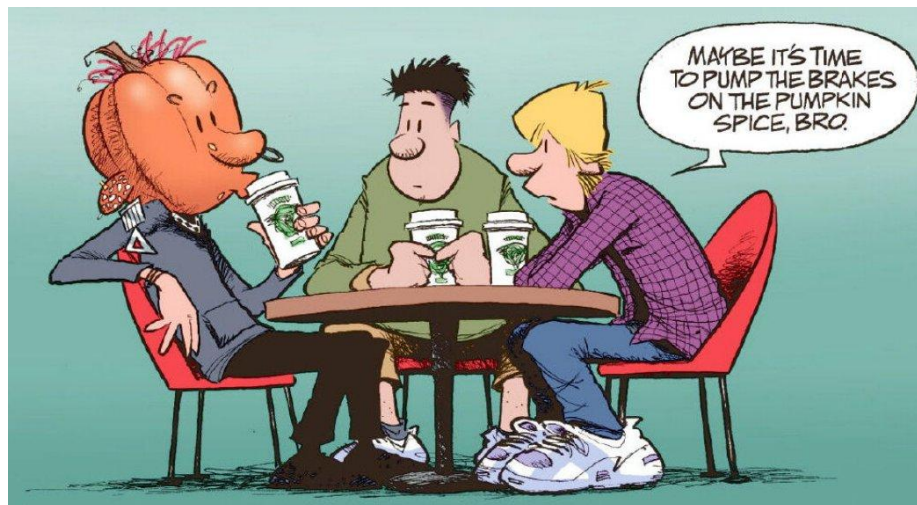


Hello OSPOTA fans and participants,

The 2023 Ohio State Parks On The Air contest is in the history books. Great turn out, weather cooperated and plenty of on-the-air action (especially on 40 meters).

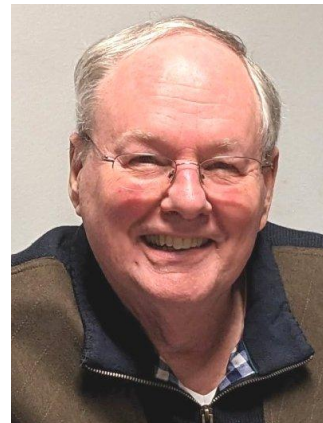
LOTS of logs sent in. The Contest Committee is currently working on the statistics and final results.

Results should be compiled and release by November 1st (as usual for OSPOTA) - **STAY TUNED**



Tech Tips - Basics of Arduino

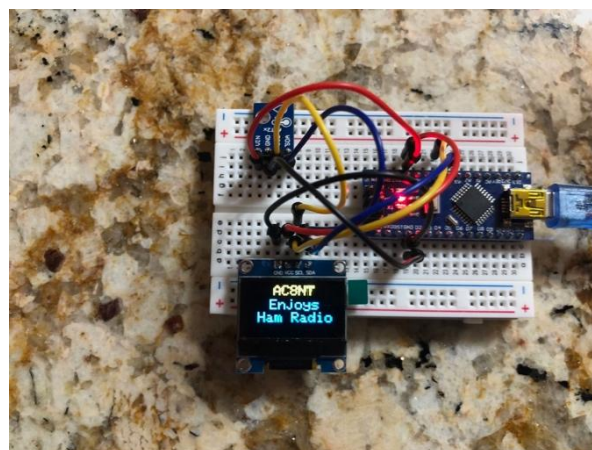
Jim, AC8NT



Basics of Arduino

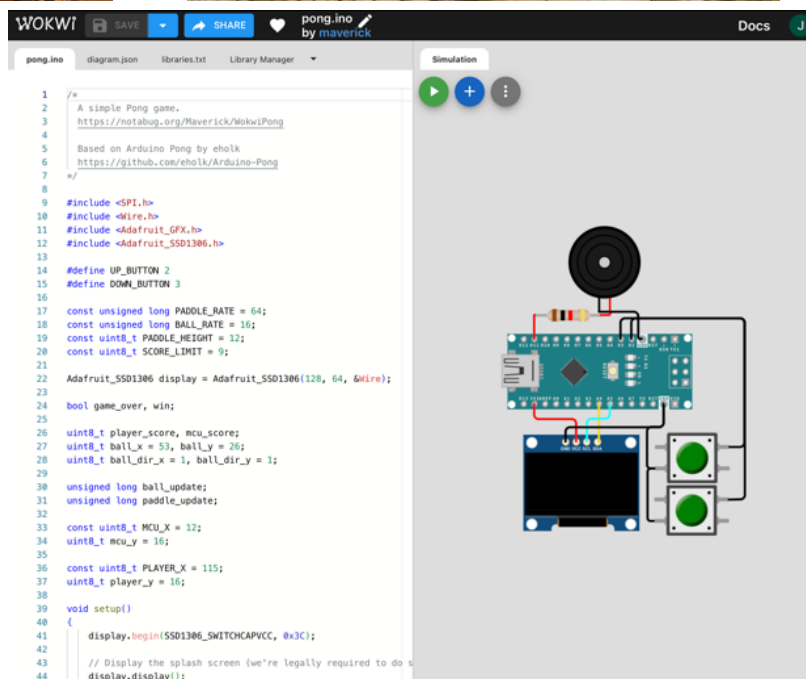
By the time you read this article we will have held a build day focusing on the basics of Arduino. This build was **not** a programming course. It presented information on making small edits to Arduino programs like changing your call sign or other simple parameters. We also covered some other tools that can be very useful for beginners. This article summarizes the presentation for those that could not attend. I plan more in-depth sessions in the future covering basics of programming and microcomputer interfacing.

First and most important you need an IDE (Integrated Development Environment) for creating, testing, uploading, and modifying Arduino programs. The most common IDE is available from Arduino.cc and the current version is 2.2. Using this tool you write a program, compile the program into Arduino machine code, and upload the program onto the board. I use the IDE installed on a Windows 11 laptop with a prototyping board. One of the examples used in the build is also shown.

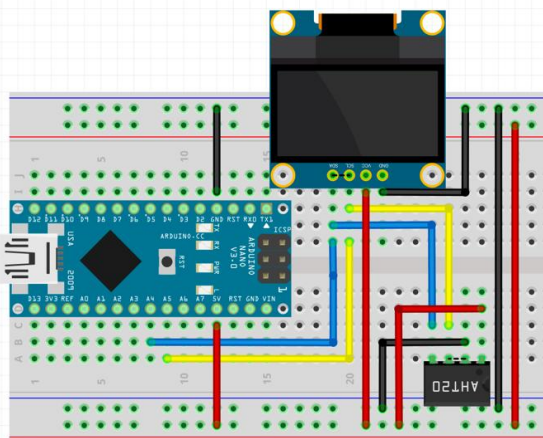


There are some other cool tools that are available to work with microcontrollers like the Arduino. If you like to simulate your projects, you might want to use the wokwi.com on-line simulator. You can use drag and drop aids to illustrate your project, enter the code for the Arduino, and simulate the project. It is an on-line tool that costs nothing.

The project to the right is a version of the arcade game Pong.



If you want to document your projects using pictures and schematics and even make a circuit board, fritzing.org has a solution. It is the most used tool for documenting projects completed using breadboards. Below is the diagram for how to build the board we used for our build. A very nice diagram for documentation. Fritzing does require a small donation to download (about \$8) but it is well worth the money.



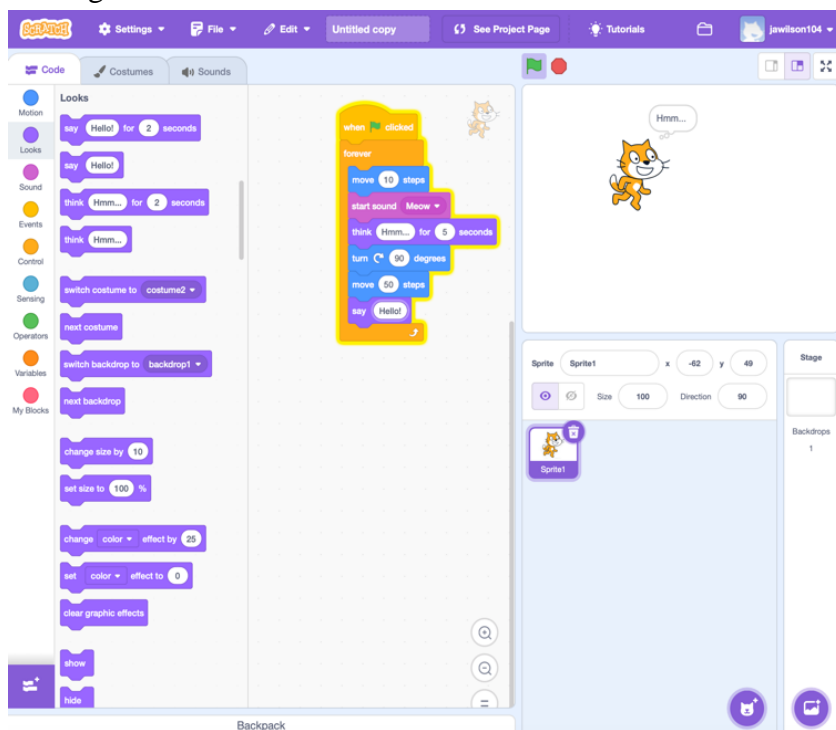
And what if you are a novice at programming. There are tools that can teach you the fundamentals. One of the great tools for learning the basics is Scratch authored and supported by MIT (scratch.mit.edu). This learning tools uses drag and drop programming blocks to build and test programming concepts. It is used by thousands of grade school students all over the world to learn programming. Adults have been known to download the

package and have hours of fun learning programming after the kids go to bed. It can make parents and grandparents smart enough to discuss homework assignments.

If you are the type to learn from videos. I strongly recommend a video made by freecodecamp.org. It is a 4-hour course that does a good job of covering the basics of Arduino coding. It even includes some electronics training. This particular video can be found at https://youtu.be/zJ-LqeX_fLU. You don't need to watch it in a single session. Take it in small pieces and you will learn a lot.

The fact is that microcontrollers are working their way into almost everything around us and that includes ham radio. Learning the basics can help you better understand how these devices work and allow you to use them in ham radio.

More to come.



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!!



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.



=====

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>

Happy Birthday PCARS Members

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

KE8UKK	Mark
KC8RKD	James
W3MLS	Michelle
N8WCP	Mike
WG8X	John
W8NET	Gene
W8KFW	Karl
KE8EGF	Paul
KD8MLE	Jonathan

WA8SAJ	Jeff
KE8VS	Vern
WA8AR	Tony
W8GWI	David
K8AAB	Bob
K8NU	Carlton
W8DMH	Dennis
K8CAV	Rick
K8DER	Donald





Solar Eclipse QSO Party Seeks Amateurs and Radio Enthusiasts for Global Experiment



ARRL is proud to partner with HamSCI to help promote participation in the Solar Eclipse QSO Party (SEQP). SEQPs are a series of global experiments -- and you can be a part of them. Solar eclipses will pass across the continental United States on October 14, 2023, and April 8, 2024. During these celestial events, you can join thousands of fellow amateurs as part of the largest crowd-sourced event for ham radio scientific exploration. The SEQP is part of the Festivals of Eclipse Ionospheric Science and is for learning more about how the ionosphere works.

All radio amateurs need to do is operate using any mode and any band for all or part of the day, then upload their logs. Participation can be from anywhere; you don't need to be near the path of the eclipse to contribute valuable data. You don't even have to be a licensed ham to participate in the experiment (only to transmit).

- For SEQP contest and rules, visit www.hamsci.org/contest-info.
- For information on the Gladstone Signal Spotting Challenge using CW, WSPR, and FST4W, go to www.hamsci.org/contest-info.
- If you're an SWL or AM DXer, you might be interested in the Medium Wave Recording Event. Go to www.hamsci.org/mw-recordings/ for more information.

Or just get on the air and help provide data to better understand the ionosphere.

The first SEQP is on Saturday, October 14, 2023, from 1200 - 2200 UTC, and participants may use any band or mode (except WARC bands). Researchers will take the submitted logs and work to derive meaningful observations from the data.

ARRL members can find out more about the SEQP by reading "The Solar Eclipse QSO Party: A Fun Way to Support Radio Science" in the September/October 2023 issue of *On the Air* magazine. The On the Air podcast will feature the article's author, Gary Mikitin, AF8A, talking about the event. The episode will go live on October 12.

AMI Jamboree Scheduled for November

The 2023 [Amplitude Modulation International \(AMI\) Jamboree](http://www.ami.org) will be held over the Thanksgiving weekend, starting at dusk on November 24 and ending at dawn on November 27.



AMI Executive Director John C. McGrath, N9AMI, said the jamboree is not a contest but rather an AM-only operating event. "Everyone is welcome to participate, and there is a certificate available for those who contact 25 stations and submit a log," said McGrath. "Each class winner will receive a certificate, and a short biography will be posted on the AMI website. While the age of the equipment doesn't matter, there must be an AM mode selection on the radio," he added.

The preferred AM bands for operation are:

160 meters: 1.885, 1.900, 1.945, 1.985

40 meters: 7.175, 7.290, 7.293, 7.295

80 meters: 3.870 to 3.890

20 meters: 14.286 and the upper end of 20 meters

According to the club's history, AMI was formed in 1993. The name was taken from a west coast amateur radio club that was no longer in operation. AMI is now dedicated to the enjoyment, promotion, and preservation of AM. Club memberships include numbered membership certificates, an organization of 10 regions with directors, annual operating events, local club support, and the monitoring of activities that affect AM operations. While the FCC reduced the peak-envelope power measurement for AM, they also issued a statement in support of continuing the mode's important place in amateur radio.

More information is available on the [AMI](#) website.

Announcements

The Intrepid-DX Group has announced their 4th Annual Youth Dream Rig Essay Contest.

The [Intrepid-DX Group](#) is a US-based nonprofit organization that promotes amateur radio activities around the world. The Youth Dream Rig Essay Contest is designed to gather the views and ideas of young people involved in amateur radio. Contestants must be USA or Canadian amateur radio license holders who are 19 years old or younger; must reside in the US, US territories, or Canada, and they must submit a two-page essay explaining what attracted them to amateur radio. All entries must be a plain text document, PDF, or Microsoft *Word* document and be either emailed to intrepiddxgroup@gmail.com or mailed to The Intrepid-DX Group, 3052 Wetmore Dr., San Jose, California 95148, USA by November 30, 2023. Those who have previously submitted an essay may compete in this year's contest, as long as all criteria are met. The contest winner will be announced on the group's website and Facebook page on December 15, 2023. The winner must agree to provide a photo with their prize. For a complete list of the rules and prizes, visit <https://intrepid-dx.com/news/>.



On Wednesday, October 4, 2023, the Federal Communications Commission (FCC) and the Federal Emergency Management Agency (FEMA) will jointly conduct a nationwide test of the [Integrated Public Alert and Warning System \(IPAWS\)](#).

The test is being conducted to make sure that the [Emergency Alert System \(EAS\)](#) and [Wireless Emergency Alerts \(WEAs\)](#) are working properly. The test will begin at approximately 2:20 PM ET and will be split into two sections. The first alert will test the WEAs, and the second will test the EAS. Your cell-network based mobile devices will alert at that time.

Save the date for the upcoming Jamboree On The Air (JOTA) October 20 - 23, 2023. [Jamboree-on-the-Air](#) provides the opportunity for millions of Scouts around the world to meet on the air via Amateur Radio.

The ARRL Simulated Emergency Test (SET) is scheduled for October 7 - 8, 2023.

The SET is ARRL's annual national emergency exercise designed to assess the skills and preparedness of Amateur Radio Emergency Service® (ARES®) volunteers, as well as those affiliated with other organizations involved in emergency and disaster responses. The SET is open to all radio amateurs and partner organizations, in addition to national, state, and local officials. To get involved, contact your local ARRL Emergency Coordinator or Net Manager. SET guidelines and report forms can be found at: [ARRL Simulated Emergency Test \(SET\) Guidelines+](#).



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.coms@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: 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 [12/23]

FOR SALE: Palstar LA-1K Amp. & HF-Auto Tuner - A very nice **1KW solid-state amplifier** and **auto tuner** in a bundle package - Both units are about 4 years old with the LA-1K amplifier updated 3 years ago by Palstar. All manuals and cables included that came with the gear. Updated latest firmware also installed - No Shipping, I want to show how well they work together. The LA-1K uses auto R.F. sensing for the band switching or you can manually switch bands and memorizes the band and antenna connected but certainly work great in the default "auto-mode" along with the HF-Auto tuner - **Price:** Cash or USPS Money Order **\$3800 for both units** - **\$3000** for LA-1K Amplifier sold separately - **\$1000** for the HF-Auto Tuner sold separately - **Pickup only** NE of Cleveland.

Contact Jeff, WA8SAJ - call home phone (440) 951-6406 for more info [12/23]

FOR SALE: Generac 13 hp MegaForce 6500 watt commercial/contractor Generator. Peak load 8,175. 220 30 amp /120 vac, manuals, maintenance kit. Manual Start. New \$1300 Very good condition. \$425. Used for emergency house backup

Contact Joe, K8HTB by email at: k8htb@cfsassociates.com or Text 234-233-5396

FOR SALE: Collins KWM-380 Serial #314 (\$2,900) (All factory updates and service by Jim Warner, Exline; **Collins 75S-3B** Serial #16972 (serviced by WA8SAJ) (\$850); **Collins 312b-4** Serial # 314 (\$325); **Drake MN-2000** Serial 1758 (\$300); **Lab Volt AA792F 20 MHz scope** with probe serial # 1060178 (\$25); **LDG Autotuner LDG AT-1000** (\$350); **LDG AT-1000PROII** (original Owner) with 1K meter (\$550); **LDG AT-600PROII** with 600 watt meter (\$525); **MFJ-616 Speech Intelligibility Enhancer** (\$125); **Nye Viking Antenna Tuner MB-V-A 3KW**, Serial # 10066 (\$450); **Palstar mobile wattmeter PM2000am** Serial # 26015 (\$150) (good for base use as well); **Swan Cygnet 300 B Transceiver** Serial # 18547 (\$450); **West Mountain Rig Blaster PRO** (\$25); **YAESU YO-301 Monitor Scope with manual** (\$250). **Hallicrafters SX-28** (2 available) for parts (\$50) each. **New but unused DXE 17 meter add-on kit for the 4-6 Hustler BTV Model DXE-AOKC-17m** (\$75); **New but unused DXE 12 meter add-on kit for the 4-6 Hustler BTV Model DXE-AOKB-12m** (\$50); **New HF Kits 250 W EFHW, 3.5-30 MHz with 49:1 UNUN** (\$25); **RCA vintage analog AC line voltage meter** (\$45);

For sale from K8IG (non-smoking shack). All equipment working unless noted otherwise. Local pickup in Mayfield Village. Will consider delivery within 20 miles if necessary. Manuals for most equipment. Pictures available on email request. Offers invited

Contact Fred, K8IG at K8IG@arrl.net; call 440-446-8000 or text 440-668-2400.

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: [12/23] indicates the ad will run until the end of December 2023.





Celebrating 50 Years of the ARRL Foundation

Thursday, September 21, 2023, marks 50 years since the ARRL Foundation was formed. As a partner with ARRL, the ARRL Foundation stewards philanthropic support for amateur radio through [scholarships](#), [club grants](#), and other programs to ensure a strong and vibrant future for the amateur radio avocation.

The total assets of the nonprofit entity measured nearly \$8M at its most recent [annual audit](#), but it grew from humble beginnings. In September 1973, several members of the ARRL Board of Directors worked to establish the charity. Larry Shima, W0PAN, was the Director of the ARRL Dakota Division at the time and did a lot of work to get the Foundation started. Shima is very pleased with the Foundation's success, stating, "We started off with \$1,000, and just look at it now!"

Shima says the original intent was to support future generations of radio amateurs. At the time, space and satellite communications were cutting-edge, and they were the focus of ARRL Foundation activities, though scholarships were also high on the list. "I was thrilled when I got the recent issue of *QST* that had the photos of the scholarship recipients in it. That is exactly what it was intended to do; we wanted to provide scholarships for young people," he said.

Gifts from generous donors support The ARRL Foundation, but it also works to help other charitable groups extend their reach. In an address to donors delivered over the summer, ARRL Foundation President David Norris, K5UZ, highlighted a recent grant the Foundation received. "The recent support the Foundation has received from Amateur Radio Digital Communications, or ARDC, has been transformational. We have been able to dramatically increase the funding of scholarships through their generosity and are working through a program of club grants, where more than \$500,000 was distributed to clubs looking to take on new projects or sustain their organizations - and to share their learning with others," he told the crowd.

Shima was just 35 when the ARRL Foundation was formed. He is the only surviving founding member of the Foundation Board. Fifty years later, he believes that hams who have done well in life have an obligation to support amateur radio by giving generously to ARRL and the ARRL Foundation. Ongoing financial support enables ARRL to promote and protect amateur radio while the Foundation supports the future generations of hams.

That generous support will have a tangible reach. More than 100 scholarships, ranging from \$500 to \$25,000, will be awarded in 2024. Thank you to the many donors for making this work possible, and congratulations to the numerous scholarship recipients who have benefited from their generosity.

To learn more about the ARRL Foundation, please visit the Foundation website at <http://www.arrl.org/the-arrl-foundation>. To learn how to make amateur radio a part of your charitable giving, contact the ARRL Development Office at <http://www.arrl.org/contact-us>.



Support Your Parks Weekend with K8BF

Brandon, KE8ARB



What: Support Your Parks Weekend

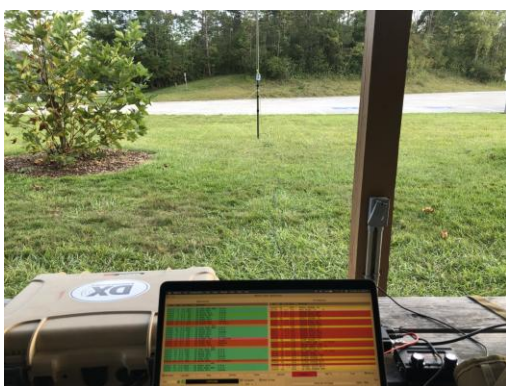
When: Oct, 21 2023

Time: 10am - 4pm

Where: Punderson State Park Pavilion K-1985

Address: 11755 Kinsman Rd, Newbury Township, OH 44065

Pavilion Location: Across from Marina FQ6Q+JCF Burton, Ohio (drop that in google and it'll give you the exact pin)



Come out and help **K8BF** activate Punderson State Park. Whether you're a seasoned POTA activator, this is your first attempt, or you want to learn more about portable operations this will be a fun gathering. There are several trees to hang your antenna, and there is plenty of open grass if you have a vertical or mast you'd like to put up. The parking lot is right next to the pavilion.

The food for the day hasn't been finalized, but we haven't had any complaints about the meals yet! There is power available but the number of outlets is limited. Grab your radio and antenna, and take 44 North to turn left onto 87 (going West). Turn left into the State Park.

Follow signs toward the marina and the pavilion is on the left across the street. Look for us to be set up there having BIG FUN!

It would be helpful to know who's coming, so please RSVP to bmercerc@eutonians.com. Feel free to reach out with any questions you have as well.

Looking forward to seeing you there!



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



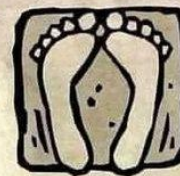
Try This...

Submitted by Myrna Bianco, a Faithful Our Town Reader

How smart is your right foot?

This is hysterical. You have to try this.

It is absolutely true. I guess there are some things that the brain cannot handle.



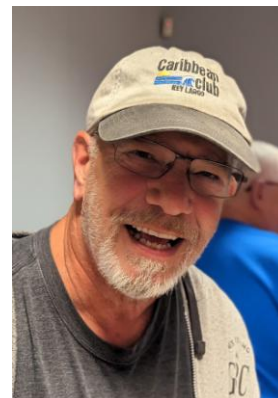
1. While sitting in a chair, lift your right foot off the floor and make clockwise circles.
- 2 Now, while doing this, draw the number '6' in the air with your right hand. Your foot will change direction.

I told you so! And there is absolutely nothing you can do about it! You and I both know how stupid it is, but before the day is done you are going to try it again, if you've not already done so.

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

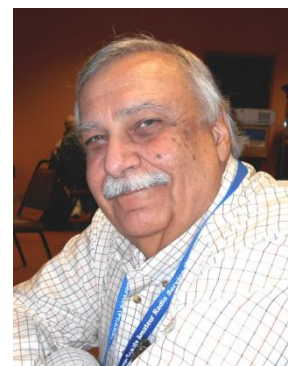


The PCARS net is **BIG Fun** - tell your friends to check in via RF or EchoLink!

DX & Contesting Special Interest Group

Chuck, W8PT

DX & Contesting SIG Coordinator



On Tuesday, Sept 26, we held our DX/Contesting Special Interest Group meeting at PCARS World HQ.

We had 10 attendees and I want to thank Bob, N8QE, for setting up ZOOM for us since Nick could not be at the meeting.

Our main topic was the discussion of the upcoming California QSO Party. We decided that we would have the IC 7300's on 20, 15 and 10 meters and the Kenwood XCVR free for 40 and 80 meters.

The contest runs from Noon on Saturday the 7th until 6PM on Sunday the 8th.

We're hoping that many PCARS members will come out to operate.

We also mentioned that there are 7 more QSO Parties during October. They are QRP ARCI Fall QSO Party; Arizona; Pennsylvania; South Dakota; New York and Illinois State QSO Parties. You can Google these to read the rules and find out when they will be held.



Portable Ops Special Interest Group

John, WG8X

Portable Ops SIG Coordinator

Next SIG will be Tuesday October 10th at 7:00 PM

Our next portable operations Special Interest Group will be coming up on October 10th at 7:00 PM. We'll have more information about the upcoming **PCARS ParkPedition** at Punderson State Park.



We'll be talking about any manner of subjects near and dear to the hearts of Portable operators.

We'll be meeting at PCARS World Headquarters. 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 October 17th at 7:00 PM

The next meeting of the PCARS Antenna Special Interest Group will be held October 17, 2023 at 7:00 PM. We will be in-person at the PCARS club site and on Zoom.

At the September Meeting we discussed electrical voltage service issues at Joe K8HTB's residence, and Mike KB8TUY's control interference issues at the airplane flying club's field site.



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

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

<https://us02web.zoom.us/j/87220356586?pwd=czgvLzRPcjVBT2hPSkVIZU1VaU84Zz09>

Meeting ID: 872 2035 6586

Passcode: PCARS2022



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



Could Be Anything Special Interest Group

Rick, KD8WCK

Could Be Anything SIG Coordinator



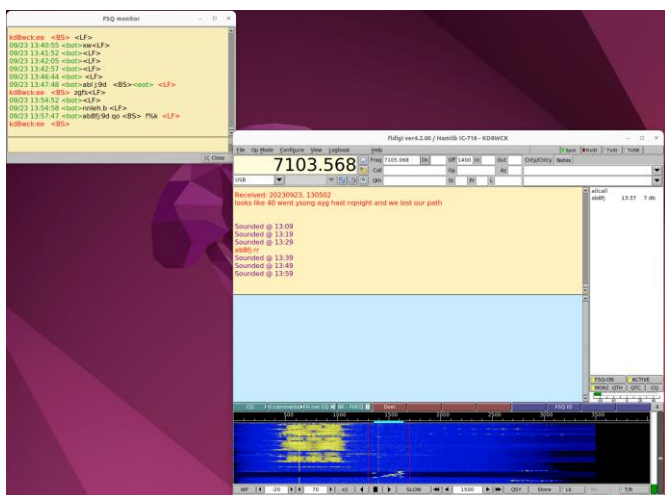
Next SIG will be Tuesday October 31st at 7:00 PM

The next Could Be Anything SIG will be Tuesday October 31, 2023.

Please join us on the 5th Tuesday of October for another hands-on session.

FSQ Digital Mode

With kind permission of the K8BF station trustee Bob N8QE, we will be using the Kenwood TS-590SG transceiver on 40 meters with fldigi to demonstrate setting up and operating using the FSQ digital mode.



FSQ is an interesting mode. Within its limitations it can be a very fun and useful means of short-distance digital communication. FSQ stands for Fast Short QSO. It is intended for one-line quick turnaround. It also supports remote commands and (insecure) message store with text file retrieval. It has been used in preparedness nets, public service events, EmComm and informal chat nets, among other things.

I have put up a web site at fsqcall.org that contains some background information, and there is also a good bit of additional information on the web on the FSQ mode.

The meeting will be held at 7:00 p.m. at the club site as well as on Zoom. The Zoom link will be sent in a QST closer to the day of the event.

Please mark your calendar and plan to join us!



Charlie the Tuner's HF High-Lites

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



Greetings DXers

Charlie the Tuner's DX High-Lites

Well with only three more months left to the year, you have either completed your outside projects OR for some of you things are speeding up and you're running out of time. That's my case. Hopefully, you will have the time to finish whatever antenna projects you had and can sit back and breathe a little easier.

But we still have many contests that bring out DX stations so you need to keep an ear to the bands. You might find something that will surprise you. I recently worked an ATNO on both CW and SSB – North Cook Is. I know that a lot of you have this in your logs, but I seemed to have missed it until the end of August. Now I have to get a card from them to confirm.

Let's see what we have coming this month and a few months down the line.

Thanks to WIAW, W3UR & The Daily DX, DL5ON & The DX News Letter, DXNews.com, DX-World.Net, I1JQJ/IKIADH & 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.

October...

4W, TIMOR-LESTE. Satoshi, JH2EUV is QRV as 4W/JH2EUV from Dili until October 13. Activity is in his spare time on 80 to 6 meters. QSL to home call.

5W, Samoa. From near Apia, Samoa, is 5W0LM, with ops 9A2NA, 9A3MR, 9A7Y and S50B, October 1-14, CW and SSB and, they say FT8 "just to relax." They will be on 160-6 with as many as three stations. QSL to 9A3MR or LoTW.

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.

A2, BOTSWANA. Sajid, VA3QY plans to be QRV as A22EW until October 8. Activity is on 20 to 10 meters, and possibly 6 meters, using CW and SSB. QSL via KB2MS

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

FH, Mayotte. TO8FH is planned for October 10-22, as prep continues at the Radio Club de Provins group, F6KOP. Signed on for the adventure are F4AJQ, F5PBM, F6GCT, F4JCT, F5GSJ, F4WCU, F4LAF, IU0BMX, F6FJE, F1FUJ and F4JTL. Club members not going along are unselfishly providing the gear.

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.

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

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.

LA, NORWAY. Chris, OE6CUD plans an extended road trip 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.

OY, FAROE ISLANDS. Col, MM0NDX, and Jonathan, MM0OKG will be returning here as OY/home calls at the end of October.

PJ2, Curacao. PJ2ND, aka K8ND, Jeff, is at the PJ2T station, "Signal Point," now through mid-October, and says he "should be pretty active" on 160-10 SSB and CW. He says he may pop up in a contest with the PJ2T callsign too. QSL PJ2ND via K8ND or LoTW. QSL PJ2T via KU9C or LoTW.

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.

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

V4, St. Kitts & Nevis - PJ7 - St. Maarten V4/N2HX, Ed, has his next trip planned, October 21 to November 11 for the CQWW SSB, callsign V49R, and then St. Maarten, PJ7PL, for CQWW CW and ARRL 10M Contest. The rest of the time he will be vacationing with his wife. QSL only via N2HX direct, no LoTW or eQSL.

V7, MARSHALL ISLANDS. Bob, N7XR plans to be QRV as V73XR from Kwajalein, IOTA OC-028, beginning in September and active for three months. QSL via Club Log.

ZD9, TRISTAN DA CUNHA AND GOUGH ISLANDS. Yuris, YL2GM will be QRV as ZD9W from Tristan da Cunha, IOTA AF-029, until October 22. Activity will be on 160 to 6 meters using CW, SSB, and FT8. QSL via LoTW.

ZL7, CHATHAM IS. 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.

And a Look Ahead...

4W, TIMOR LESTE. 4W8X Team will be active from Timor Leste, IOTA OC - 148, in November 2023. They will operate 160 - 6m, CW, SSB, FT8 including activity in CQ WW DX CW Contest, 25 - 26 November 2023 in Multi-Multi Category. They will operate also EME on 144, 432, 1296 mHz. QSL via DJ4MX.

9L, Sierra Leone. M0KRI will be at the Toma Boutique Hotel in Freetown November 23 to December 6. He will have an IC-7300, IC-706, TS-480SAT and Expert amplifier, 400 watts, to a hexbeam and vertical array. He, Shabu, will be on 80-6 and the QO-100 satellite, CW, SSB and FT8. QSL 9L5M to G3SVK, Club Log, or LoTW.

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

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.

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 until November 2023. They will operate on 160 - 10m, CW, SSB, FT8. QSL via M0URX, LOTW, OQRS.

OY, FAROE ISLANDS. Col, MM0NDX, and Jonathan, MM0OKG will be returning here as OY/home calls at the end of October.

VK, Australia. YL ops in VK7, Tasmania, joined by others in the rest of the nation, has VI7ALARA on HF until Nov 8 for the Australian Ladies Amateur Radio Association meeting in Hobart, Tasmania. QSL using Club Log OQRS.

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.

Fellow Amateurs, sooner than you think, Cycle 25 will wind down and be history. So why not, while it still is active, get on the air and take advantage of it. Talk to someone on the other side of the world and learn what they are doing. Use this wonderful resource we have before the companies with very deep pockets start to seriously chip away at our spectrum.

My usual disclaimer: Keep in mind that these DX events can change due to various reasons that sometimes are out of the hands of those who are doing the planning. Keep the either wobbling.

Get on the air and work some DX!!

New Club-Level Awards from the ARRL

New Club-Level Awards

There are two big events for new hams. The first is when they pass their exam and get their new license. The second one, which may be scarier for many, is making their first contact. It may be on a handheld transceiver talking to the local repeater or by way of a GOTA station on HF.

The first contact is special. There is a new certificate available to commemorate that momentous event. On the ARRL website, at www.arrl.org/awards, you'll find a list of available awards, with one being the First Contact



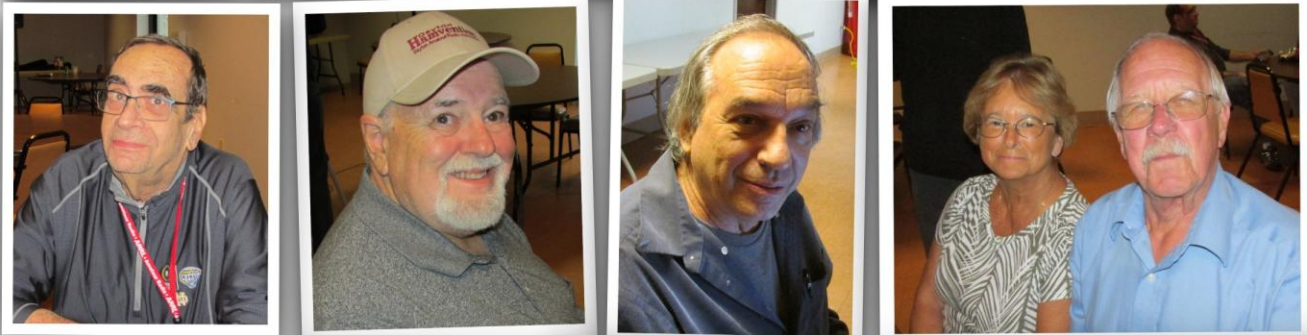
Award. This certificate is a fillable PDF that can be printed or saved. Make a new ham's first contact special and give them some new wallpaper to start their collection.

Another award has also been reworked, and that is the Mentor Award. If a friendly ham helped you get started, taught a class, or introduced you to a digital mode, thank them with the Mentor Award. It is also a fillable PDF and can be found on the same page.

These are more awards that clubs and individuals can use to help promote ham radio. Think about how your club can use them!



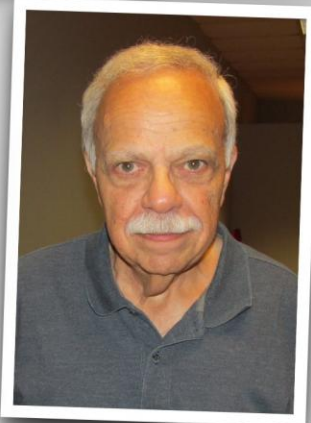
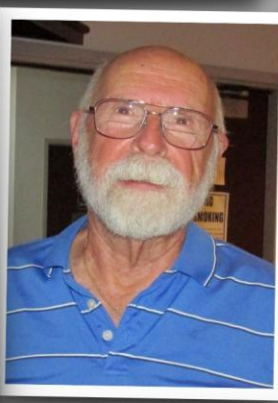
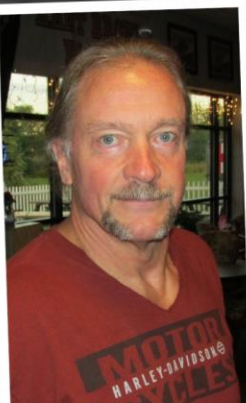
Photos from the September PCARS Meeting



11 Sept 2023



11 Sept 2023



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 80 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.



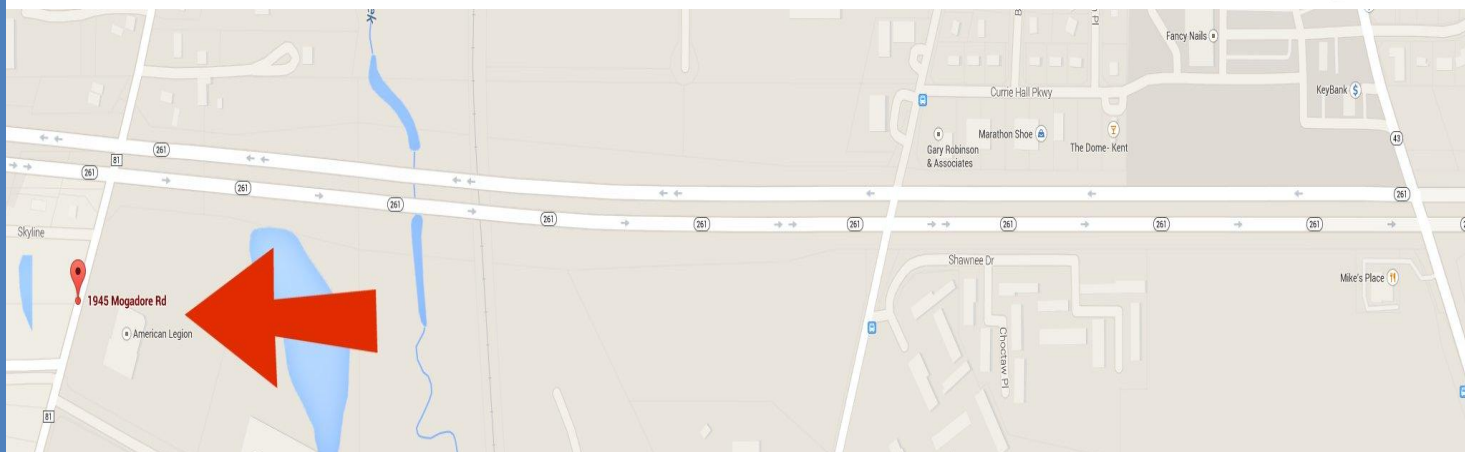
PCARS Meetings

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 re-instate your license.

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

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

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



UNITED STATES OF AMERICA
FEDERAL COMMUNICATIONS COMMISSION
AMATEUR RADIO LICENSE

KE3GK

John Q. Amateur
123 Maple Avenue
Anytown, State 99999

FCC Registration Number (FRN): 0000000000

Special Conditions / Endorsements

NONE

Grant Date	Effective Date	Print Date	Expiration Date
01/01/2000	01/01/2015	01/01/2000	01/01/2015

File Number	Operator Privilege	Station Privilege
0000000000	Advanced	Element

THIS LICENSE IS NOT TRANSFERABLE

John Q. Amateur
(Licensee's Signature)

FCC-060 - May 2007



~ 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

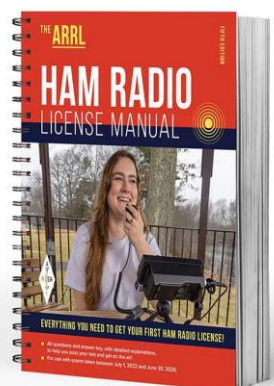


When: Wednesday evening 7:00 p.m. – 9:00 p.m.
October 4, 2023 through November 15, 2023
7 weeks. Official Amateur Radio License testing
will be held at the end of the course (Nov 15th).

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



2023 ARRL ONLINE AUCTION October 13-19

PREVIEW AND REGISTRATION BEGINS OCTOBER 10



Xiegu XPA125B 1.8-50 MHz
100 W Amplifier



FlexRadio Systems
Tune Genius XL

The 2023 ARRL Online Auction features unique vintage items, new gear, Product Review items, and more. New items are being added every day!



ARRL Lab Mystery Junk Boxes

arrrl.org/auction

Proceeds benefit ARRL education programs and projects.

Sponsored by

rt SYSTEMS
RADIO PROGRAMMING MADE EASY



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, WA8EFK, N8SY, WB8LCD, KE8ARB, KA8TOA, W8PT, WG8X, N8QE, KD8WCK, K8ZT,, The ARRL and the World-Wide Web

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



PCARS
www.portcars.org



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

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

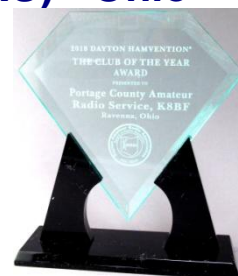


PCARS meets the second Monday of each month at the **Kent American Legion Post 496**,
1945 Mogadore Rd. - just South of Rt. 261 - Enter the rear of the building for the meeting room.

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
		Public Information Officer	
		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	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



THE RADIOGRAM

PCARS Incorporated
Nov. 1, 2005

First Meeting
Nov. 14, 2005



ARRL Affiliation
April 20, 2006



Special Service Club
March 22, 2010

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

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

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

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

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



NLC

