



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
June 2022 - Volume 17 Number 6

Hamvention® 2022



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



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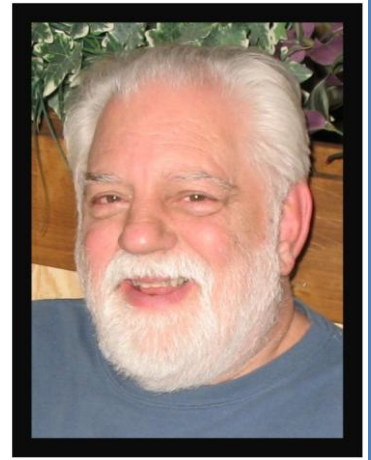
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Larry Cole, N8FTP - SK

Larry Cole, N8FTP - PCARS Member #29 became a Silent Key on May 1, 2020. Larry was a Charter Member and a Life Member of PCARS. Always a smile and enjoyed being with fellow PCARS members to talk about radio and a host of other topics. A bright smile and great sense of humor. He loved helping young amateurs and passing on his ham radio experience to them. Always encouraging and willing to help. Larry will be missed by many of us at PCARS.

Posted online on May 15, 2022 - Published in Record Courier - <https://www.record-courier.com/obituaries/pwoo0211205>



Lawrence "Larry" Edward Cole, passed away on May 1, 2022, with family by his side. He was preceded in death by his wife of 53 years, Beverly Cole, who passed in 2018. Larry was born July 9, 1941, in Akron, Ohio to Edward Ackley Cole and Laura Elizabeth Abbott.



Left to cherish his memory are his daughters: Elissa Cole Ellis of Plumerville, Arkansas and Erin Cole (wife Amanda Cole) of Kent, Ohio. To his grandchildren and great-grandchildren, he was Pop. Grandchildren: Erika Cole of Kent, Ohio; Austin Turner-Smith of Muncie, Indiana; Cierra Cole of Morrilton, Arkansas; Kieran Cole of Morrilton, Arkansas; Ayanna Cole of Fayetteville, Arkansas and his great-grandchildren: Elliot Cole, Dylan Cole and Zona Cole all of Kent, Ohio; Marlee Byers, Makenna Conway and Madelynn Conway of Morrilton, Arkansas; Nylah Cole and Kieran Cole Jr. of Paris, Arkansas; his brother Randall Ackley Cole (Debbie Cole) of Hunting Valley, Ohio; his cousin Lucia Jarvis (husband Tom); brother-in-law Thomas Ham (wife Patricia) of Michigan.

The Cole family roots in Ohio are deep and go back many generations. Larry grew up in Hudson, Ohio, graduating from University School in Shaker Heights. He then went on to Defiance College, graduating in 1966 with a BA in English. While at Defiance College, he would meet and marry Beverly, as well as make lifelong friendships. The couple then moved to the Kent area in 1968 and remained in Kent for the entirety of their lives. The consummate seeker of knowledge, Larry later obtained a BS in 1974, a MEd in 1974, and an MLS in 1983, all from Kent State University.

Larry leaves a legacy of building integrated, state of the art media departments at several Universities and Colleges across NE Ohio. This was his lifelong passion. He spent much of his career at Cuyahoga Community College, retiring as the Director of the Technology Resource Center at the CCC Western Campus. He dedicated his life and career to capturing and cataloging for historical purposes, pretty much ALL things. If you knew Larry, chances are, you have something he recorded for you!

Larry was enormously proud of all the recent progressive development in Kent, Ohio – a city he and his wife loved deeply. Larry was also known for his photography. He loved taking pictures – just another thread of his passion for capturing things for the archives. His daughter Elissa fondly recalled his pop up, table-top dark room that he used, to teach her how to develop film when she was a young girl.



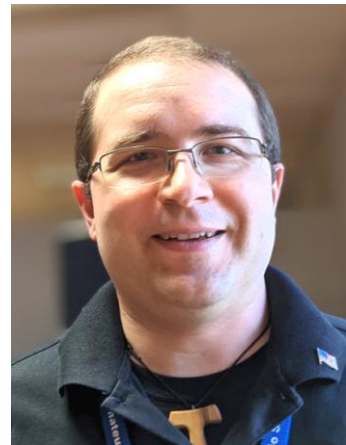
Larry was deeply loved and respected by his family and lifelong friends. Generous and engaged, he always gave of his time and was an active, dedicated member of the Kent Unitarian Universalist Church, Kent Environmental Council, Portage County Amateur Radio Service, Portage County Suicide Prevention Coalition, Kent Garden Club, and was a longtime supporter and volunteer along with his wife, Beverly, of Town Hall II.

A Celebration of Life will be held at the UU Church of Kent on June 4th, 2022 at 2:00 PM. UU Church of Kent is located at 228 Gougler Ave., Kent. The family requests in lieu of flowers, donations may be made in his honor to the organizations he supported and held dear.

From the President



Nick, AC8QG
PCARS President



Hamvention® 2022

It was a long time coming, but Hamvention® was back for 2022! It was great to be back in Xenia with people from all over the world.

The Wagner family decided to combine a Hamvention® trip with a family camping trip. That started a bit rough with some thunderstorms Thursday night into Friday morning. With the help of “the handyman's secret weapon — duct tape,” everything more or less held up.

On Saturday, I kicked the day off early with Ben, AD8FQ and Agnes, AD8IR who were scheduled to speak at the Youth Forum. We successfully made it to Room 2 on time and ready to go. But, about 15 minutes later, just as Carole Perry, WB2MGP was getting the forum started, my phone rang. It was my XYL Elizbeth. Yeah. That's never good. I had her car key, and she was stuck at the campground.

I'll take this moment to thank my brother-in-law for running the key back to Caesar Creek State Park so the rest of the family could join us. They walked into the building just before Ben and Agnes began their presentation.

Saturday afternoon brought more thunderstorms, so I dug deep into my Eagle Scout skills and decided to switch from a campfire dinner to Sake Japanese Restaurant. Not exactly roughing it, but we all stayed dry and enjoyed some showmanship from the Teppanyaki chef.

By Sunday, we were all pretty tired, but the smaller crowd afforded us a chance to take our time and explore Hamvention® a bit deeper. My kids managed to find a surprising amount of buttons, stickers, bags, hats, and candy, so they were happy. I met some interesting people and had good conversations, so I was happy.

All in all, Hamvention® was a lot of fun, and we're looking forward to heading back again next May.

Field Day Dinner

The PCARS Field Day Dinner is back for 2022! **RESERVATIONS REQUIRED** by Saturday, June 4th!

As in previous years, dinner is free for members; you may bring guests for \$5.00 each. Food will be served at about 6 PM on Saturday. You must be on the reservation list to eat with us. Dinner will be served to ON-DUTY operators FIRST.

To add your name to the list, follow this link and fill out one response per person:

<https://forms.gle/xrzQTdWmXLnkmRbm9>

Field Day Volunteers

We need more operators, so look for the Field Day station entries in this newsletter for more information about where you can help. We also need people to assist with setup and teardown. Sunday afternoon especially is always a challenge since everyone is tired. Please lend a hand where you can!

Field Day is a big success whenever we go out and have “Big Fun.” I'm confident that our excellent team of

leaders and all the volunteers will make that goal a reality once again. I hope you'll join us in the fun!

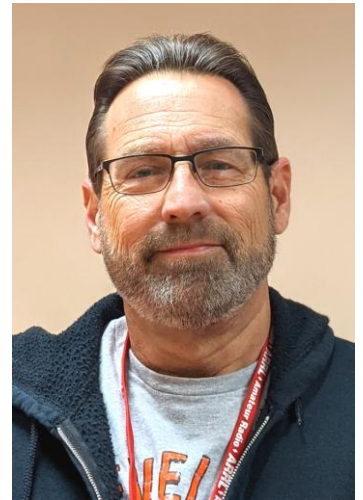
Thank You!

As I watched my kids give their presentation at the Hamvention® Youth Forum, I was struck by how much PCARS has played and continues to play a role in their experience of amateur radio. Oh, sure, I like to take all the credit, but in so many ways, it's been you, the members of PCARS, who have supported, encouraged, assisted, and mentored them for the last several years. I'm very proud of my children and what they've accomplished, but I am also very proud to be a part of this club, and I'm grateful for the opportunities PCARS provides. Thank you!

From the Vice President



Mike N8WCP
PCARS Vice President



Another Hamvention® is in the books! It was good to see friends and wander through the flea market. The members of the Dayton Amateur Radio Association (DARA) do an excellent job which made for an enjoyable time. On the way down I stopped at the National Voice of America Museum of Broadcasting in West Chester. There's some amazing radio history in this building and the West Chester Amateur Radio Association - WC8VOA has their club station the museum.



Latta, AA8V discussing Feedlines & SWR. I saw several members taking notes and received positive feedback. You can view his presentation at <https://www.youtube.com/watch?v=skGs8cdWN3s>.

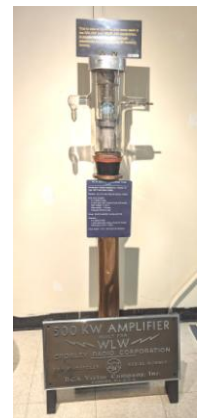
Bob Wilson, N6TV will be our speaker at the June meeting. Bob will discuss *"Everything You Need to Know About Serial and USB Interfaces"*. Ever have a device conflict? I'm sure Bob can explain why and how to fix it.



Preparations for Field Day 2022 continue. We encourage our members to get involved either as operators, setup/teardown, or support staff. Some stations still need operators so check the FD updated in this edition of the newsletter.

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

Do you have a suggestion for a presentation or build project? Send me an email at vicepresident@portcars.org.



Schedule of Events



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

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

June 4th - VE Testing at the club site in Ravenna - 10 am

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

June 8th - General Upgrade Class Starts - see flier

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

June 25-26 - Field Day 2022 at the park in Freedom Township

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

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

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

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

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



PCARS Patches & Stickers



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

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



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



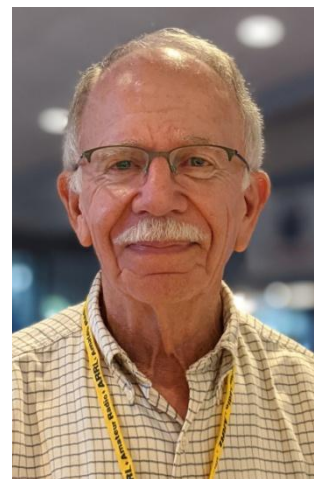
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From the Great Lakes Division Director



Dale, WA8EFK
ARRL Great Lakes Division Director



Greetings, welcome to "Dale's Tales" for June 2022

HAMVENTION

Has come and gone, but from this ham's perspective, it was so great to have it back. Our Great Lakes Division booth inside ARRL's EXPO, drew many visitors. Thanks to all who stopped by and posted their QSL cards and signed our guest register. I'm sure there were many, many more that visited and did not have the opportunity to register. It seems everyone was enjoying the Hamvention's return, visiting the dealers, vendors and flea market and taking the opportunity to enjoy the many forums that are always a part of this experience.

Our thanks to the Dayton Amateur Radio Association for their outstanding efforts in pulling this excellent team of volunteers together to make Hamvention the greatest Amateur Radio event in the world.

JUNE

Brings Field Day, the biggest operating event of the year. It is time to finalize your plans. Operate with a club or on your own, but this is a great time to exercise your skills. I know that when FD is over, I am a better op. I clearly can discern calls and signal reports through QRM and QRN much better following my streak of Field Day operating. And despite the fact that my club sets up much like previous times, there is always some innovation or idea that gets tested each year. Often with success, sometimes not, but we learn from both the successes and the failures and that is just one of the fun parts of Field Day.

THIS WEEEEKND

We honored our brave heroes who gave their lives in defense of freedom. I hope you all took the time to think about them and their great sacrifices. Even a short moment of remembrance, a brief thought of their time served, or a pause of respect for their families, is the least we can offer.

LAST MONTH

I wrote about some changes to hamfest listings and how we will approach ARRL Sanctioning these activities. The policy revision is to offer ARRL Sanctioning to a maximum number of hamfests/swaps sponsored by a club and will be limited to two in any given year and they must be four months apart. This is done in the interest of fairness to every ARRL Affiliated club hosting a hamfest, and will allow clubs to adjust to new schedules caused by prior COVID-related cancellations.

I have received some good suggestions relating to naming conventions as they relate to "Hamfest", "Swap", "Swapmeet", "Trunkswap", "Trunkfest" etc. and have been talking with my fellow ARRL Directors about how best to name these events. Listings will now be shown as either "Hamfest" or "Swap", using the sponsor's registration and a guide. In most circumstances, "Hamfests" include at least one building for housing displays and vendor tables and may offer forums or meeting rooms, while "Swaps" are primarily smaller in scale and limited to outdoor events. Let's try to move our event listings in this direction, while allowing a little leeway as we make this migration.

From the Great Lakes Division Vice Director



Scott, N8SY
ARRL Great Lakes Division Vice Director

Scott's Notes for June 2022



Wow... I think that sums up Dayton weekend! It was so great getting out and being able to see and talk with all of you and boy, we did talk. I've had the opportunity for many years to man that booth and I will say that this year was the best. Yes, we had our booth neighbors on either side of us jealous as we had them stacked up 5 - 6 deep many times throughout the weekend. If you didn't make it to Dayton this year. I am so sorry for you. The theme this year was "Reunion" and it really fit. It was a reunion for everyone there. Now, I have to ask, how many of you purchased new radios while you were there. It seemed like everyone that passed our booth had some sort of a new radio in a bag or under their arm. So, with all those new radios just purchased I hope to start hearing some of you on the air soon!

Shifting Gears... Now that Dayton is over are you ready for more fun? June 25 - 26 is Field Day. The biggest event that we all do every year that demonstrates to our served agencies what amateur radio is really all about, communications. Are you participating with a local club this year or just having some ham friends over for a great weekend? I will be out and about once again this year. I will try to get to as many of the Field Day sites as I can. I usually hit around 14 - 16 sites and I choose them from whatever direction I happen to pick from the dart that I throw at the dartboard.

Now, my territory is large so if I don't get to visit your site this year, please forgive me. I'll try harder next year to get to you. Oh, thank you in advance for all the warm welcomes and great food. Hams love to eat and they have the best food for Field Day. I even had fresh lobster one year!

OK, shifting gears again... Now, for all the contesters out there. June has contests even if you take Field Day out of that picture. If you are interested in just having some fun, here is a link to a schedule of all the contests for the month of June... <https://www.contestcalendar.com/fivewkcal.html>

A few folks asked me recently why my article sounds like I'm in a race car with the shifting of the gears. Well, it's simple, I live just in front of Mid-Ohio Sports Car Course and many times when I'm writing this column I'm outside where I can hear the cars on the track shifting up and down and I tend to type in tune with the shifting up and down that the cars are doing. So, if sometimes my articles seem "geared" to motorsports, now you know why. Oh, by the way, Mid-Ohio is the only track in Ohio that does a NASCAR race. Just imagine how hard it is to run one of those cars on that track when it has both left and right turns! It's a blast for sure.

That is going to do it from here this month. Stay safe and "Catch Me On The Air, Field Day or at a hamfest!!!"



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From the ARRL Ohio Section Manager



Tom, WB8LCD
ARRL Ohio Section Manager



For those of you who were in Xenia for Hamvention® 2022, I hope you had a fantastic time at Hamvention!



On Saturday, June 4th, I'll be leaving home, at 'O'dark Thirty' in the morning, driving a rented van with my wife, 3 kids, 1 son-in-law and 2 grandkids, all headed for the Outer Banks at Kitty Hawk, NC. As a result, there will be no PostScript next week, but I should be home in time the following weekend to get it out! Please, continue to send me your announcements, articles, photos and I'll be sure to get them all in. While at Kitty Hawk, I hope to do some portable QRP operating from the rental house we have waiting.

The following Sunday (in addition to getting out a PostScript) I'll be listening in on the Ohio Section Youth Net. I've posted the net info in the "Clubs" Section. Your Net Control operator will be Agnes, AD8IR and I hope she gets a lot of check-ins. If her name sounds familiar to you, it's probably because she, along with her brother Ben, AD8FQ were presenters at the Carole Perry Youth Forum at Hamvention!



Get on the air! Have some fun.

PCARS Custom Coffee Cups - Limited Edition - Almost Gone

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



Supply is limited. If you are a current (PAID) member of PCARS you get one coffee cup for **FREE** !! The only catch is you have to claim it from the



Treasurer - Greg, KA8TOA. Greg has a list of current members and will check off your name when you get your **FREE** PCARS coffee cup.



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

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

Hamvention® 2022 PCARS Group Photos

Hamvention attendance figure announced

The Dayton Amateur Radio Association (DARA) have announced the attendance figure for the 2022 Hamvention, the first event since 2019. The official attendance at Hamvention 2022 was **31367**. General Chairman Rick Allnutt, WS8G, said *“Although that was about 1,000 less than 2019, he considered it not bad for a pandemic recovery year.”* Hamvention was cancelled in 2020 and 2021 because of the Covid pandemic. Hamvention <https://hamvention.org/>.



PCARS Members that were at Hamvention® 2022 met for the ‘annual’ photo shoot 2pm on Saturday **between buildings 2 and 3** at the Greene County Fairgrounds in Xenia. The second photo is because a few people forgot and went between buildings 1 and 2.... 😊

OK folks - in 2023 - meet between buildings 2 and 3.



By Scott Halasz
shalasz@aimmediamidwest.com
posted on May 22, 2022

XENIA — Ham radios have no boundaries as there are operators all over the world.

There are also no age parameters. Just ask Riley Lorang. The 10-year-old from San Jose, California obtained his tech license at age 8 and his general license last summer when he was 9. He actually started getting into it as a first grader but kind of let it go until the last couple years. “I always wanted to play with the radios with all the buttons,” he said when asked what got him interested in amateur radio.

He definitely has had a great experience, communicating with hams from as far away as Russia, South Korea and Trinidad and Tobago, just to name a few. Lorang owns four radios, according to his father, John, who was licensed in the early 2000s. “I spoiled him,” John said. “He just decided he wanted to do it.” The younger Lorang had to obtain the tech license online due to COVID, but when in-person tests were offered he was one of the first in San Jose to sign up and be tested. This is his first Hamvention.



The Wagner siblings — Bernadette, Benedict, and Agnes — are a little more experienced in Hamvention, attending their first in 2019 before COVID shut things down for a couple years. Benedict, 13, has been licensed for four years.



Bernadette, 15, and Agnes, 12, have had their licenses for three years. “I went to meetings with my dad and I thought it was fun,” Benedict (AD8FQ) said. His favorite part of amateur radio is participating in contests where he and others in his club try to contact as many people as possible from a specific place. Agnes (AD8IR) took the lead from her brother and some friends who were ham operators. “I thought it would be cool to talk to my friends,” she said. “I like to play with the digital modes.” That’s where the radios and the internet mix for an added dimension. “Some of my favorite (activities) are ones where you don’t have to talk a lot,” she added. Guess why Bernadette (K88LWO) became involved. “I just kind of got dragged along

into it,” she said. “The other kids were getting into it.” Also a scout with Boy Scouts of America, Bernadette has noticed a trend amongst her peers. “A lot of other scouts that I met recently are into ham radio,” she said. However the Wagners - who are from Stow, Ohio - became involved is fine with their father, Nick (AC8QG). “It lets us do some things as a family,” he said. Agnes and Benedict will be presenting at Saturday’s youth forum.

Greene County also has myriad youngsters involved in ham.

Xenia 13-year-old Zachary Klinc has been licensed for two years. He first became involved by going to a meeting with his dad, Eric. “I like doing the races,” he said. Zachary attends those races - horse, 5K and marathons - and charts how many people pass by his station.



ARRL EXPO at Hamvention® 2022

ARRL Expo at Hamvention®

MAY 20, 21, AND 22



ARRL EXPO and Hamvention® 2022 a Great Success

By all accounts, the 2022 Dayton Hamvention®, which also served as the 70th reunion, was a great success. Thousands of ham radio operators, their families and friends, and other enthusiasts passed through the gate during its 3-day run, May 20 - 22, at the Greene County Fairgrounds and Expo Center in Xenia, Ohio. Local reports estimate the event brings over \$30 million dollars to the economy of the Dayton metropolitan region. Official numbers and estimates will be available later.

ARRL's large exhibit area, ARRL EXPO, included a steady flow of visitors who were treated to a variety of exhibits representing popular membership programs and services. More than a dozen booths were led by a team of 80+ program representatives and volunteers that included members of the ARRL staff, Board of Directors, and Field Organization.



ARRL's big team at 2022 Dayton Hamvention included staff, Board members, Field Organization volunteers, and many others.

CLOSE X

Using the theme "Be Radio Active," ARRL also organized many Hamvention forums to encourage attendees to become more active and involved with amateur radio.

An ARRL Youth Outreach forum on Friday highlighted resources and ideas for attracting and developing young hams. ARRL Education and Learning Manager Steve Goodgame, K5ATA, led the crowd of attendees through a highly interactive session discussing strategies, tools, and reasons for engaging youth. Centered around the theme of 'How and Why to Engage Youth in Amateur Radio,' forum attendees participated in discussion groups and shared their findings throughout the forum. The entire presentation was recorded by Josh Nass, KI6NAZ, and can be viewed on his YouTube channel, Ham Radio Crash Course, at <https://youtu.be/QZco6tEIKBc>.

Goodgame's participation also included exhibits for ARRL Education and Learning programs and the Teachers Institute. "Both booths were very busy during the entire convention," he said. "We made a concerted effort to draw-in not only ham radio instructors and others interested in our educational programs, but youth themselves." Young hams and prospective hams were surveyed by volunteer Cyndi Goodgame, K5CYN, about their experiences and interests with amateur radio, for the purpose of gaining insightful data to help drive future ARRL programming and outreach. "Attendees who were not licensed, or were seeking upgrades, were shown tools and techniques to help them prepare for their ham radio license exam," said Goodgame. "Some even returned to the booth after passing their exams!"

ARRL Teachers Institute Instructors Larry Kendall, K6NDL, and Wayne Greene, KB4DSF, demonstrated some activities that teachers who attend the professional development program are taught and take back to their classrooms. Adults and youth were given information on the program to take back to their schools, with the goal of continuing to grow the Teachers Institute. An October 2022 session of the Teachers Institute is planned.

ARRL Radiosport and Regulatory Information Manager, Bart Jahnke, W9JJ, described the busy Radiosport booth where attendees could have their QSL cards checked by volunteers for popular ARRL Award programs including DXCC. Nearly a thousand cards were checked. He also transported nearly 60 pounds of cards back to ARRL Headquarters, destined for the Outgoing QSL Bureau.

Jahnke also kicked off the ARRL Field Day forum on Friday, which included advice for anyone planning to take part in the popular annual event. 2022 Field Day is June 25 – 26, 2022. Joined by his co-presenters, Jahnke focused on the new Field Day rules. ARRL Director of Operations Bob Naumann, W5OV, offered operating tips, including how to make your Field Day site safe by addressing generator safety, cord management, area lighting, and lightning protection. ARRL Public Relations Committee member Scott Roberts, KK4ECR, covered ways to promote ARRL Field Day to maximize attention from the community and local media.



At the nearby ARRL Volunteer Examiner Coordinator (VEC) booth, VEC Manager Maria Somma, AB1FM, said traffic was brisk. Visitors conveyed positive feedback and comments about the program and the new Youth Licensing Grant Program. *"We fielded hundreds of questions about our programs, the FCC application fees and rules, and license application filings,"* said Somma. Over 90 prospective VE packages were given out. The team also accepted applications for license renewals and changes, and re-enlisted VEs with expired accreditations. *"Attendees appreciated our support and booth presence for licensing questions,"* she added.

The VEC booth shared its space with the ARRL Volunteer Monitor (VM) Program. A highlight for visitors was the participation of ARRL VM Program Consultant Riley Hollingsworth, K4ZDH, and FCC District 3 Enforcement Bureau Director, Lark Hadley, KA4A. Jahnke, Hollingsworth, and Hadley presented a VM forum on Saturday, summarizing the positive impact of the Program over the past couple years, its cooperative and productive partnership with FCC on enforcement issues, and with an emphasis on encouraging good operating practices.



ARRL Director of Emergency Management Josh Johnston, KE5MHV, coordinated and operated the Amateur Radio Emergency Service® (ARES®) booth. His team included Section Emergency Coordinators, Public Information Coordinators, and Vice Directors. *"It was great to interact with hams from around the country at the booth and gather input from them,"* said Johnston. He also led the ARES forum on Friday, where Johnston shared opportunities for radio amateurs to train and volunteer to serve their communities. He also covered the importance of building relations with local Emergency Management agencies, and building a strong team. He included panelists from around the country who discussed their experiences and successes from within their local ARES community as well as ways to encourage new involvement at the local level. Johnston also toured an EmComm vehicle exposition hosted by Hamvention. *"The time, money and care that EmComm groups and individuals have committed to these vehicles is remarkable and truly a valuable asset to their communities in preparing for any emergency,"* he said.

A large membership and sales area invited attendees to join ARRL and to renew their membership. Team members were on-hand to answer questions about accessing membership benefits and services. A variety of ARRL publications and products were stocked to peruse and purchase. Favorites included an end-fed half-wave antenna kit, ARRL License Manuals, and 2022 ARRL Field Day gear.

Several ARRL Authors and Editors were hosted, engaging attendees with their contributions to ARRL magazines, books, and online content. Included were *QST* Columnist Dave Casler, KE0OG, *QST* Product Review Editor Pascal Villeneuve, VA2PV, and ARRL News Editor John E. Ross, KD8IDJ. *National Contest Journal* (NCJ) Editor Lee Finkel, KY7M, added to the celebration of the journal's 50 years of publication. Author Glen Popiel, KW5GP, discussed and signed copies of his newest ARRL book, *More Arduino for Ham Radio*.

Other ARRL exhibits in the EXPO included ARRL Affiliated Club Benefits and resources for radio clubs, the Collegiate Amateur Radio Program, handheld radio testing by the ARRL Lab, and the ARRL Great Lakes Division (Kentucky, Michigan, and Ohio). Attendees could also meet-and-greet ARRL Officers.



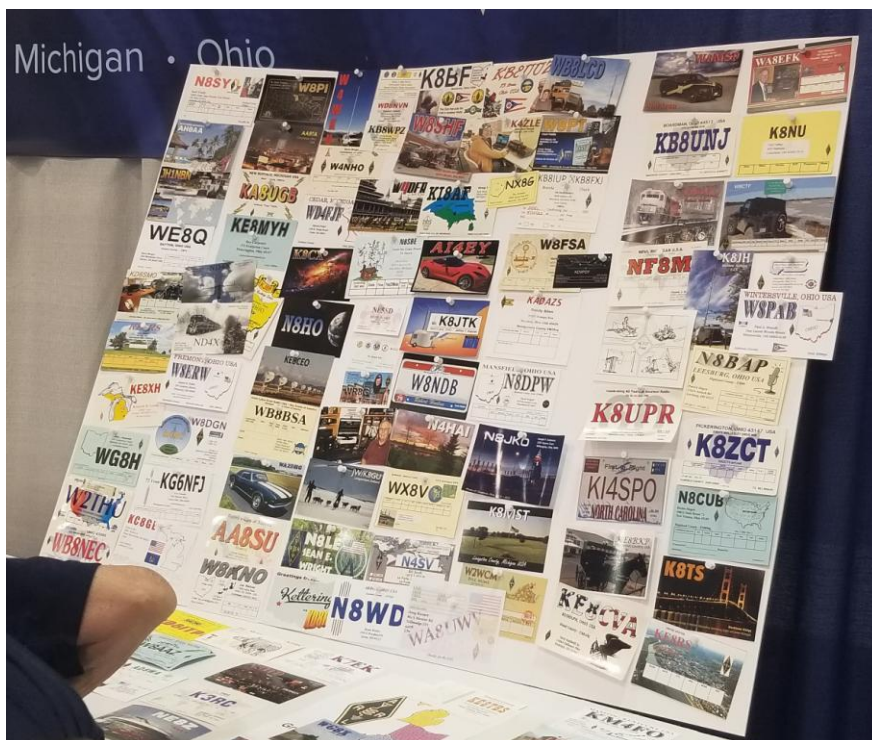
An ARRL Membership Forum was held on Saturday afternoon and moderated by Great Lakes Division Director Dale Williams, WA8EFK. The forum included presentations

on behalf of the ARRL Historical Committee presented by Midwest Vice

Director David Propper, K2DP, and the Legislative Advocacy Committee, presented by West Gulf Division Director John Robert Stratton, N5AUS. The forum concluded with remarks from ARRL President Rick Roderick, K5UR, and ARRL CEO David Minster, NA2AA.



ARRL President Rick Roderick, K5UR, addressed the Membership Forum at 2022 Hamvention.



Addressing the membership forum, President Roderick recognized the important contribution of nearly 7,000 ARRL Field Organization volunteers across the country who contribute to strengthening ARRL and amateur radio, and serve their communities. Roderick also urged members to help grow our next generation of radio amateurs by recruiting and developing young hams.

A video of the forum is available on ARRL's YouTube channel. Read the full story on the ARRL website, and see more photos on the ARRL Facebook page.



Hamvention® Youth Speakers (from PCARS)

Carole Perry, WB2MGP presented a fabulous **Hamvention® Youth Forum** at the Dayton Hamvention® in Xenia, Ohio this year.

PCARS members Ben, AD8FQ and Agnes, AD8IR presentation was **"Unexpected Opportunities: Our Ham Radio Adventures During Lockdown."**

Carole said *"I feel so honored to be working and show casing these amazing young people. I'm also so pleased for the technology that enables us to share the forum with others who couldn't be there; in the hope of inspiring them."*



You can see the entire Youth Forum and all the presentations at:
<https://www.youtube.com/watch?v=RXg8E48nTmE>



Field Day 2022



Tony, WA8AR
Field Day Chairman



FIELD DAY JUNE 25 AND 26

Field Day is almost here, it will be held June 25/26!! Field Day is, without a doubt, the largest operating event for PCARS every year. **THE PCARS DINNER IS RETURNING** this year!! Dinner is free for all members; guests will need to pay \$5.00 each to eat with us. Please remember to **register for dinner** (members and guests), we need the count so that we know how much food to have in hand. To register use the Field Day 2022 tab on the PCARS (portcars.org) website, and follow the directions provided. PCARS will provide coolers, ice and water. If you want any other soft drinks please bring your own and maybe enough to share with others if you want.

I will be sending out a series of QST's looking for volunteers to help with setup and teardown of antennas, power cables and whatever assistance the station captains need for setup. Remember that we need just as much help with teardown as with setup. Please remember that anytime you are working with antennas and equipment above your head you must wear a hardhat (PCARS will have a limited supply of hardhats; feel free to bring your own safety equipment). I will be sending out more detailed safety information soon.

If you want to operate or log please check in with the station Captains for 40 meter phone; 20 meter phone; Flex Station (phone, digital, CW); dedicated CW station; VHF station, and GOTA. Station schedules are filling, so check in soon you want to participate



Field Day 22 - CW Station



George, K3GP
CW Station Captain



FIELD DAY JUNE 25 AND 26

STILL SEEKING: CW OPERATORS

We are still seeking volunteer CW operators for field day - additional operators could allow us to reduce shift durations.

Below is the preliminary field day operating schedule for the CW position.

If your assigned time slot is unsatisfactory - Please let me know what time slot you prefer so that we can adjust accordingly.

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

Additional CW operators are more than welcome, I will adjust the operator schedule and durations accordingly. email me at rttyfan@gmail.com	DAY	TIME	OPERATOR
	SAT 25 JUN	1400 - 1600	K3GP
	SAT 25 JUN	1600 - 1800	
	SAT 25 JUN	1800 - 2100	N8NB
	SAT 25 JUN	2100 - 0000	ND8L
	SUN 25 JUN	0000 - 0300	K8RR
	SUN 26 JUN	0300 - 0600	
	SUN 26 JUN	0600 - 0900	K8FF
	SUN 26 JUN	0900 - 1200	WB9LBI
	SUN 26 JUN	1200 - 1300	K3GP
	SUN 26 JUN	1300 - 1400	N8QE

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

Field Day 22 - VHF Station



Mike, KB8TUY
VHF Station Captain



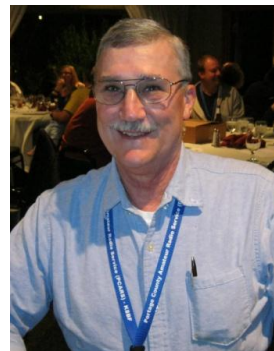
FIELD DAY JUNE 25 AND 26

If you would like to be on "Stand By" – let me know what times you would be at the Field Day site and willing to be on call. If you would be willing to operate or log, PLEASE! Let me know what time slots you would be willing to be an operator or logger. Email me at: kb8tuy@gmail.com	DAY	TIME	OPERATOR	LOGGER
	SAT 25 JUN	1400 - 1800		
	SAT 25 JUN	1800 - 2200		
	SAT 25 JUN	2200 - 0000		
	SUN 26 JUN	0000 - 0400		
	SUN 26 JUN	0400 - 0800		
	SUN 26 JUN	0800 - 1200		
	SUN 26 JUN	1200 - 1400		

Field Day 22 - Flex Station



Rick, K8CAV
Flex Station Captain



FIELD DAY JUNE 25 AND 26

Field Day less than a month away and I still have five slots to fill at the Flex Station. I set a goal for the Flex Station this year of 750 QSO's digitally, which I think we can attain but not without making sure we're fully staffed for operators. While much of the emphasis is on digital due to interest level, any of those currently unfilled slots can be filled by either phone or CW operators as well. Below is the current schedule for the Flex Station. Please let me know if you want to volunteer for any of the slots by sending me an email at k8cav.coms@gmail.com. Thanks!

DAY	TIME	MODE	OPERATOR	LOGGER
SAT 25 JUN	14:00 - 16:00	10M, 15M PH or DIG; 20M DIG *	Jim AC8NT	JC KC8JC
SAT 25 JUN	16:00 - 18:00	10M, 15M PH or DIG; 20M DIG *	Bob N8QE	
SAT 25 JUN	18:00 - 20:00	80M PH, CW, or DIG		
SAT 25 JUN	20:00 - 22:00	80M PH, CW, or DIG		
SAT 25 JUN	22:00 - 00:00	80M PH, CW, or DIG		
SUN 26 JUN	00:00 - 02:00	80M PH, CW, or DIG		
SUN 26 JUN	02:00 - 04:00	80M PH, CW, or DIG		
SUN 26 JUN	04:00 - 06:00	80M PH, CW, or DIG	Rick KD8WCK	Mara KE8KBJ
SUN 26 JUN	06:00 - 08:00	80M PH, CW, or DIG	Gene W8NET	John KE8MXR
SUN 26 JUN	08:00 - 10:00	10M, 15M PH or DIG; 20M DIG *	Bob N8QE	
SUN 26 JUN	10:00 - 12:00	10M, 15M PH or DIG; 20M DIG *	Brandon KE8ARB	
SUN 26 JUN	12:00 - 14:00	10M, 15M PH or DIG; 20M DIG *	Ben AD8FQ and Agnes AD8IR	

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

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



Field Day 22 - 20 Meter Station



Mike, N8WCP
20 Meter Station Captain



FIELD DAY JUNE 25 AND 26

Calling all Ops! We still have two open slots, the coveted Sunday 4:00A - 6:00A slot and Sunday 12:00P - 2:00P slot, so come out and enjoy some fresh air and help make Field Day successful for PCARS! We'll be operating phone during the day and FT4, FT8, or CW during the night. The use of digital and/or CW at night should keep the contacts rolling. If you're interested in participating in the 20M station, send me an email at vicepresident@portcars.org.

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

DAY	TIME	OPERATOR
SAT 25 JUN	14:00 - 16:00	Mike - N8WCP
SAT 25 JUN	16:00 - 18:00	Tim - W8GPN
SAT 25 JUN	18:00 - 20:00	Bob - N8QE
SAT 25 JUN	20:00 - 22:00	Ben - AD8FQ, Agnes - AD8IR
SAT 25 JUN	22:00 - 00:00	Greg - KA8TOA
SUN 26 JUN	00:00 - 02:00	Greg - KA8TOA
SUN 26 JUN	02:00 - 04:00	Joe - W8KNO
SUN 26 JUN	04:00 - 06:00	
SUN 26 JUN	06:00 - 08:00	Chuck - W8PT
SUN 26 JUN	08:00 - 10:00	Brandon - KE8ARB
SUN 26 JUN	10:00 - 12:00	Bob - N8QE
SUN 26 JUN	12:00 - 14:00	

Field Day 22 - 40 Meter Station



Ed, K8IV
40 Meter Station Captain



FIELD DAY JUNE 25 AND 26

Field Day is but three short months away. Over the past several years, PCARS has managed to improve our standings and last year achieved second place in the 4A classification! We will need a significant effort to pass the first place team, including a strong 40 meter effort. I'm looking for operators to keep the 40 meter station active for the entire twenty four hour period. Once again the operation will be in an air conditioned trailer protected from the outside elements. Please consider signing up for 40 meter station at an upcoming club meeting or by email to: EP.K8IV@gmail.com.

Additional standby operators are more than welcome, I will adjust the operator schedule and durations accordingly. Email me at EP.K8IV@gmail.com

DAY	TIME	OPERATOR
SAT 25 JUN	1400 - 1600	Ray ND8L
SAT 25 JUN	1600 - 1800	Mel K8KSU
SAT 25 JUN	1800 - 2000	Ray KD8DFL
SAT 25 JUN	2000 - 2200	John N8GIE
SAT 25 JUN	2200 - 0000	Jack N8BI
SUN 26 JUN	0000 - 0200	Ed K8IV
SUN 26 JUN	0200 - 0400	Mel K8KSU
SUN 26 JUN	0400 - 0600	Ray KD8DFL
SUN 26 JUN	0600 - 0800	John N8GIE
SUN 26 JUN	0800 - 1000	Chuck W8PT
SUN 26 JUN	1000 - 1200	Ed K8IV
SUN 26 JUN	1200 - 1400	Ray KD8DFL

PCARS VE Testing Information & News

Tom, KB8UUZ
PCARS VE Team Liaison



Due to the COVID 19 concerns, PCARS had shut down in-person VE testing to ensure the safety of our VE team members and the applicants that wanted to take a test for their new amateur radio license or to upgrade. **We will have a VE Test Session June 4th at the club site starting at 10 am.** Masks are encouraged.

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

If you have any questions, don't hesitate to contact me at KB8UUZ@gmail.com. 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.

June 4th, August 6th, October 1st, December 3rd

WALK-INS will be accepted.

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



Any questions? Contact KB8UUZ@gmail.com

Additional Information - What to Bring to the Testing Session

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

These documents may include:

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

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

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

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

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

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

Amateur candidates who already have an FCC license, whether for amateur radio or in another service, already have an FRN and can use the same number - it is printed on your current license. All prospective new FCC licensees, however, will be required to obtain an FRN **before** the examination and provide that number to the volunteer examiners on the Form 605 license application. An FCC instructional video (<https://www.fcc.gov/rofrn>) provides step-by-step instructions on how to obtain an FRN through the FCC's CORES system. The FRN is required for all new applicants to take an amateur exam and is used afterward by the applicant to download the license document from the FCC Universal Licensing System (ULS) (<https://www.fcc.gov/wireless/universal-licensing-system>), upgrade the license, apply for a vanity call sign, and to submit administrative updates (such as address and email changes) and renewal applications.



Email Addresses **REQUIRED**

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

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

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

April 4, 2022 - The Federal Communications Commission (FCC) staff has clarified in response to an ARRL request that the new \$35 application fee will **not apply** to most license modifications, including those to **upgrade an amateur radio licensee's operator class and changes to club station trustees**. The FCC staff explained that the new fees will apply only to applications for a new license, renewal, rule waiver, or a new vanity call sign. As previously announced, the new fees take effect on April 19, 2022.

"We are pleased that the FCC will not charge licensees the FCC application fee for license upgrade applications," said ARRL Volunteer Examiner Coordinator (VEC) Manager Maria Somma, AB1FM. "While applicants for a new license will need to pay the \$35 FCC application fee, there will be no FCC charge for future upgrades and administrative updates, such as a change of mailing or email address. Most current licensees, therefore, will not be charged the new FCC application fee until they renew their license or apply for a new vanity call sign."

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

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

Per usual procedures, examinees that pass multiple exams at one session, will have one application transmitted to the FCC reflecting the highest level license class earned. Again, our procedures will not change. The candidates will have an extra step before

the license is issued. VE teams can point candidates to our FCC Application Fee webpage www.arrrl.org/fcc-application-fee. Our new ARRL VEC CSCEs also include information about the application fee and points candidates to the webpage.

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

Youth Licensing Grant Program

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

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

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

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

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



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

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

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

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

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New Technician Question Pool Released, Effective July 1, 2022

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

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

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

ARRL Youth Licensing Grant Program Information

Beginning April 19, 2022, ARRL will cover the one-time \$35 application fee for new license candidates younger than 18-years old for tests administered under the ARRL Volunteer Examiner Coordinator (ARRL VEC) program. The \$35 FCC application fee will be reimbursed after the ARRL VEC receives the completed reimbursement form and the new license has been issued by the FCC. The reimbursement check will be mailed to the fee payer. Also, candidates younger than 18-years old would pay a reduced exam session fee of \$5 to the ARRL VEC VE team at the time of the exam. The \$5 fee is for all candidates under the age of 18 regardless of the exam level taken. Proof of under 18 status is required at the session (what to bring to an exam session).

ARRL VE Team Instructions and Information

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

Additionally, ARRL will cover the one-time \$35 application fee for new license candidates younger than 18-years old for tests administered under the ARRL VEC. The \$35 FCC application fee will be reimbursed after the ARRL receives the completed grant reimbursement form and the new license has been issued by the FCC. The reimbursement check will be mailed to the fee payer listed on the form.

The completed grant reimbursement form can be faxed (860-594-0339) or emailed to the ARRL VEC department by the candidate.

Visit the ARRL's FCC application fees webpage for additional instructions and information about the \$35 FCC fee.

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What to Bring to an ARRL Exam Session:

MANDATORY BEFORE THE EXAM - FCC Registration Number (FRN): Examinees are required by the FCC to submit your FRN with your license application form. New license applicants must create an FCC user account and register their Social Security Number (SSN) in the FCC Commission Registration System (CORES) before attending exam sessions. Registrants will be assigned an FRN which will be used in all license transactions with the FCC. For instructions on how to register your SSN and receive an FRN from the FCC, visit the CORES Registration page and the FCC's Registration instructions page. Per FCC rules, a valid email address is also mandatory on the application form to receive FCC correspondence, including the official copy of your Amateur Radio license.

One legal photo ID (identification):

- State Driver's License
- Government issued Passport
- Military or Law Enforcement Officer Photo ID card
- Student School Photo ID card
- State Photo ID card

If no photo ID is available, two forms of identification:

- Non-photo State ID card (some states still have them)
- Birth certificate (must have the appropriate seal)
- Social security card
- Employer's wage statement or Minor's work permit
- School ID card

- School or Public Library card
- Utility bill, bank statement or other business correspondence that specifically names the person; or a postmarked envelope addressed to the person at his or her current mailing address as it appears on the Form 605.

Students/minors without a photo ID need to bring only one of the above items if a legal guardian presents their photo ID; otherwise two non-photo IDs are required. ARRL will cover the one-time FCC application fee for new license candidates younger than 18-years old for tests administered under the ARRL VEC program. Candidates younger than 18-years old would pay a reduced exam session fee of \$5 to the ARRL VEC VE team at the time of the exam.

Visit the Youth Licensing Grant Program webpage for more information and for the reimbursement instructions. Minor children (under the age of 18) may be accompanied in the room by an adult during the test.

- If applicable, bring a printed copy of your Amateur Radio license or be able to show proof of the license in the official FCC database. Acceptable copies or printouts of licenses are available from the following sources: the official license or reference license printed from the FCC website or license data printed from the ARRL website or QRZ website.
- The original(s) and photocopy(s) of any Certificates of Successful Completion of Examination (CSCE) you may hold from previous exam sessions. If your license has already been issued by the FCC, the CSCE showing license credit is not needed.
- The candidate is required to show proof of the current license to the team but the team is no longer required to submit the proof to the VEC. Expired license proof must be submitted to the team and to the VEC for processing to FCC. These photocopies will not be returned. Instructions on how to obtain an official FCC license copy are on our Obtain License Copy web page.
- Two number two pencils with erasers and a pen for in-person sessions.
- A calculator with the memory erased and formulas cleared is allowed. You may not bring any written notes or calculations into the exam session. Slide rules and logarithmic tables are acceptable, as long as they're free of notes and formulas. Cell phone must be silenced or turned off during the exam session and the phones' calculator function may not be used. In addition, iPhones, iPads, Androids, smartphones, Blackberry devices and all similar electronic devices with a calculator capability, may NOT be used.
- Bring a check, a money order or cash to cover the exam session fee(s). Check the ARRL VEC's current exam fees.

Be aware that some information about you will be made publicly available on the FCC's website (FCC Licensee Privacy) including a felony conviction status. All applicants must answer the Basic Qualification Question (felony conviction status question) on the 605 Form at the exam session. Applicants that answer "YES" for the question must follow these FCC procedures: FCC qualification question instructions



On The Road Again

John, WG8X



Did you go to Hamvention? Besides being a great place to view a huge array of the latest in Amateur Radio equipment, it is also within easy driving distance of at least a half dozen Ohio State Parks.

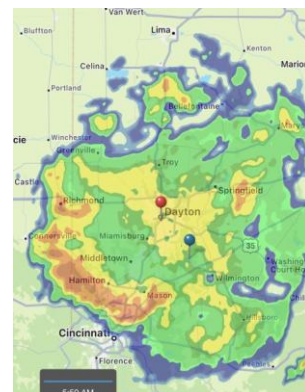


This year, I headed down a day early in order to do some park activations. By the time the weekend was over, I had marked 6 more parks off my list for Activated All Ohio State Parks ([http://ospota.org/wp-content/uploads/2019/01/Worked-All-](http://ospota.org/wp-content/uploads/2019/01/Worked-All-Ohio-State-Parks-Award-Rules-Jan19.pdf)

[Ohio-State-Parks-Award-Rules-Jan19.pdf](http://ospota.org/wp-content/uploads/2019/01/Worked-All-Ohio-State-Parks-Award-Rules-Jan19.pdf)). I also did several other activations, but these were the important ones to me at this time. That's 67 parks activated out of 75 in Ohio.

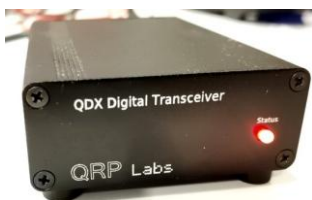
Of course, what would Hamvention be without a bit of rain? Luckily, it was not the mud pit that the people on social media were describing. We had rain overnight on Thursday, then a bit of rain on Saturday night. I left on Sunday morning ahead of another rainstorm.

At the Hamvention, I spent most of my time in the commercial buildings, opting to spend only a small part of my time in the flea market. My strategy did not disappoint; I came away with some gear for an upcoming trip. This will be the first time I've ever taken my radio gear on a plane, so some gear upgrades were in order.



First of all, my 20AH LiFePo4 battery is too large for carry-on for most of domestic flights. So, I finally bit the bullet, and purchased a commercially built 12 AH battery for the trip. It should fit nicely in my carry on.

Most of my antenna solutions when running portable are either too large, or require tossing a line to a tree; something that is not welcome at all Parks. So, a Wolf River Coil system that is small enough fit into a suitcase was my next purchase. It tunes 40-10, and is small enough to fit in my luggage. It had a bit of a learning curve to tune, but was well worth it. I'll be doing an activation on one of the Lake Erie Islands about the time you are reading this. I'm hoping for good results.



Though not required, a new toy was purchased from the QRP-Labs booth on Saturday. The QDX Data transceiver has been one hot seller since it was introduced in 2021. Luckily, they had a limited number of these kits available at Hamvention, so I snapped one up. It puts out only 5W, but seems to be a good performer on FT-8. I can't wait to build this one.

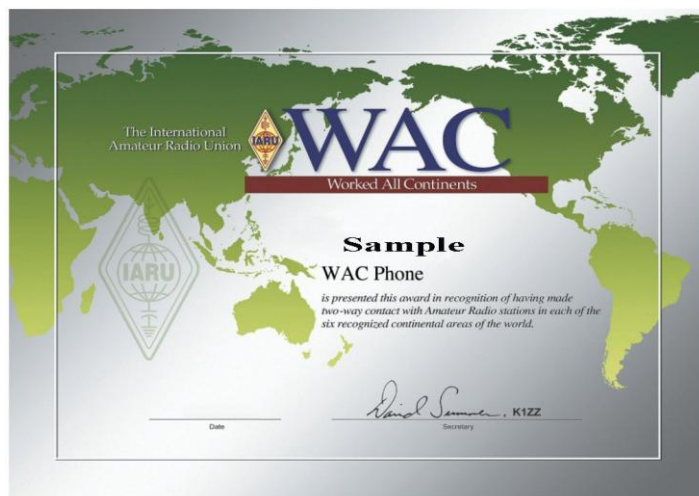
And, of course, I finally bought a new name badge. That was a must-have item! And, that's it for now. Tune in next month for pictures from the Lake Erie island trip.



Worked All Continents Award

The Worked All Continents (WAC) award is sponsored by the International Amateur Radio Union (IARU) and is issued for working and confirming all six continents. This means **one QSO** with each of **North America, South America, Oceania, Asia, Europe and Africa**. A total of **6 QSOs**.

A Five-Band Worked All Continents award is also available. You must work and confirm all six continents on each of the 5 primary Amateur bands of 80, 40, 20, 15 and 10 Meters. The Five-Band WAC is strictly a band-only award, it cannot be endorsed on any mode. For more information, visit www.iaru.org/on-the-air/operating-awards/ .\

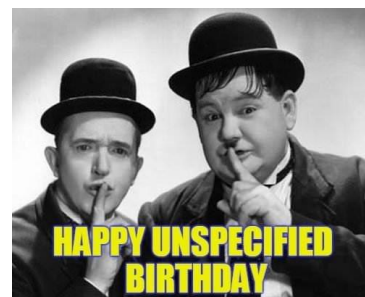


Happy Birthday PCARS Members

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

Ben Wagner	AD8FQ
Bernadette Wagner	KE8LWO
Jennifer Sly	KD8LIR
Randall Phelps	KD8JN
Steve Hannah	KC8YSU
Vince Bednarz	AC8XO
Phil Weis	K8PJW
Gary Overfield	KB8VJO

Rick DeMattia	KD8WCK
Rena Martin-Wehner	KD8EPF
John Miles	KD8SIZ
Bob Warner	WB8OVQ
Coletta Tomasik	W8CDL
Gary Overfield	KB8VJO
Dan Trout	WD8DAU
Mark Mc Mahon	KE8XQ



Power By Radio?

It was an unrealized dream of Nikola Tesla, but the U.S. Naval Research Laboratory says it has successfully transferred 1.6 kilowatts of electric power over a distance of one kilometer using a 10-GHz beam.

According to *Newsline*, transfer of electrical energy from point to point via microwaves is an emerging technology that could eventually open the door for transmitting power from space to earth. The project leader, by the way, is KJ4IKI, so care is presumably being taken not to fry any amateur satellites sharing the 10-GHz band with the military.



A "rectifying antenna" connected to the receiving antenna converts the 10-GHz RF energy into electricity. (NRL Photo by Gayle Fullerton)



Wireless EV Charger

40KW RFI Generators New RFI Possibilities.....

Wireless EV charging as a technology seemed to have a moment about ten years ago, as various start-ups scrambled to develop the tech that at the time seemed to be poised to become commonplace in just a matter of years. Why take a minute to plug your car in at home or in a parking lot when you can just park over a special spot with a small rubber mat that could juice up the battery while you aren't using the car?



It was easy to picture this technology becoming ubiquitous if not almost mandatory at the time. Needless to say that future predicted a decade ago hasn't quite turned out that way, and neither have rates of EV adoption, with developers now tending to focus on DC fast-charging tech to bring charging times down to mere minutes for some very large EV batteries.

Volvo is one automaker that hasn't given on the concept of wireless charging, with the company currently testing the integration of the technology into a city center.

Over a three-year period Volvo will test a small fleet of Volvo XC40 Recharge taxis in the city of Gothenburg, Sweden. SUVs operated by taxi company Cabonline, the automaker will use wireless induction charging pads made by Momentum Dynamics installed into the pavement. Charging begins automatically when a compatible EV parks over the installed pad providing over 40 kW of power, which is almost four times faster than a corded 11 kW AC charger as Volvo points out.

The XC40 Recharge taxis will cover about 60,000 miles a year, operating over 12 hours a day, which should certainly give the cars and the charging stations a workout. The purpose of this test is to examine the durability of the system for commercial vehicles.

"Gothenburg Green City Zone lets us try exciting new technologies in a real environment and evaluate them over time for a potential future broader introduction," said Mats Moberg, Head of Research and Development at Volvo Cars. "Testing new charging technologies together with selected partners is a good way to evaluate alternative charging options for our future cars."

Of course, after a decade of development the biggest question with wireless charging is still "Who pays for the convenience of using charging pads instead of corded chargers?" EV station builders are focusing mostly on corded chargers to deliver power even faster, while the aim of home-based chargers has been to cut the price of entry.

Neither of these industry trends seems to favor wireless charging at the moment, which is why we're seeing more and more experiments for this technology for commercial fleets where the convenience just *might* make sense to fleet operators. Cities, on the other hand, are mostly struggling and failing to provide enough corded curbside chargers, with municipal efforts facing breathtaking costs.

Volvo's experiment has the advantage of testing wireless charging in a relatively small commercial setting with a fleet of identical cars involved, as well as the backing of a city.

FOR SALE

WANTED

FOR SALE

WANTED

FOR SALE

ASSISTANCE NEEDED: My husband Neil (N8IL) was a member of PCARS. He passed away in December and I was wondering if one of the club members would be able to give me some help with information about selling or giving away the antenna and tower we have here at the house. Can you please let me know if this is possible? Thanks.

Contact: Lisa Gerren via email: lgerren1@gmail.com [9/02/22]

FOR SALE: ICOM IC-208H 50W Mobile FM transceiver 2m/440 dual band with Larsen trunk lip mount antenna, \$200. **ICOM IC-91A HT** 5W 2m/440 dual band, \$150. **YAESU VX-150 HT** 5W 2m with extra battery pack, \$80. **BUDDIPOLE portable antenna system:** 8' tripod/mast, standard and long whips, complete set with carry bag and 2-25' coax feed cables, rotating arm kit and switching balun, like new, used twice, \$200.

Contact info on PCARS roster, Bob NT8K [8/02/22]

FOR SALE: Murch Electronics UT-2000A HF Antenna Tuner 2000 Watts, PEP 3.5-30 MHz, Cleaning out the Shack. Bought this several years ago and never did anything with it. I have a copy, from the internet, of the manual and schematic that will be included. Sold as is. No returns. Asking \$325 plus shipping. **Autotek Ltd. DU-500 Duplexer**, VHF/UHF INDOOR DUPLEXER, DU-500UF SO-239 JACK TO 2xSO-239 JACKS, DU-500UM SO-239 JACK TO 2xPL-259 PLUGSm, DU-500NF SO-239, JACK TO 2xN-JACKS, Aluminum diecasting box. Freq Bandwidth: 1.3-225MHz(VHF) /350 - 540MHz(UHF) - 500W(1.3-35MHz); 300W(50-540MHz). Used and in great condition. Sold as is. No returns. Asking \$40 plus shipping. Both can be shipped to lower 48. Shipped via UPS. (Reasonable offers will be considered) Cannot ship to PO Box. Payment accepted via venmo, zelle or paypal. (Preferred venmo or zelle)

Contact: Bob, W8RID via email: w8rid@arrl.net [8/02/22]

FOR SALE: Collins 30L-1 desk amplifier, CCA rating: Good. used 572B's and gets approx. Brand New Rectifier Board, 750 watts out. QRZ price= \$650 PCARS member price= \$575 Pickup only.

Contact: Al, WA8CCU at 330-562-4770 or email: radioflyer73@roadrunner.com [8/02/22]

FOR SALE: from Terry KB8AMZ (SK) estate: Gin Pole - Dual Band 2m/70cm 5-element Yagi - Standoff bracket for antenna tower, approx. 16" wide x 36" deep - Military style 5' ribbed fiberglass poles (five) in duffel bag with stakes, guy rings, guy ropes - Parts for Mosley Antenna, TA-53M Coils and hardware (missing aluminum boom and elements) - Mosley TA-40-KR 40 Meter Add-on (can be used with TA-53-M) - Yaesu FT-60R with extra battery but no charger - Standard FM Tri-Band (6M,2M,70cm) XCVR C5900 with separation cable CAW59 and microphone - Heathkit Station: HFT-9, HSA-9, HW-9, HM-9, HW-7, HW-8, HWA-7-1; Much miscellaneous. **Items available for sale at Club Site at most Tuesday SIG's and Net Night at Club (4th Thursday)**

Contact: Greg KA8TOA, Mike KB8TUY, Rick KD8WCK or Paul KE8EGF [8/02/22]



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



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.

=====

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

=====

07/16/2022 - NOARSFEST - Location: Lorain County Community College - 1005 Abbe Rd. N. - Elyria, OH 44035 - Sponsor: Northern Ohio Amateur Radio Society - Talk-In: 146.70 (110.9) - Public Contact: Carl Rimmer , W8KRF - 3821 West 152nd Street CLEVELAND , OH 44111 - Phone: 216-256-9624 - Email: noarsfest@noars.net

=====

08/06/2022 - Columbus Hamfest - Location: Aladdin Shrine - 1801 Gateway Circle - Grove City, OH -43123 - Website: <http://columbushamfest.com> - Sponsor: Aladdin Shrine Audio Unit - Talk-In: W8FEZ 146.760- PL 123.0 - Public Contact: Art Wilson , N8ART - 182 Alexander Lawrence Dr. Pickerington, OH 43147 - Phone: 614-256-5829 - Email: n8art@yahoo.com

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09/11/2022 - Findlay Hamfest - Location: Hancock County Fairgrounds - 1017 East Sandusky Street - Findlay, OH 45839 - Website: <https://www.findlayradioclub.org/> - Sponsor: Findlay Radio Club - Talk-In: 147.150 PL88.5 - Public Contact: David Dryden , KD8AVT - 1926 Windsor Pl Findlay, OH 45840 - Phone: 419-348-1569 - Email: KD8AVT@findlayradioclub.org

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!!

PCARS Thursday 2 Meter Nets

Greg, KA8TOA
Net Control Coordinator



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

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

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

June	
2	N8WCP
9	KA8TOA
16	KD8WCK
23	K8YLK
30	WB8LCD

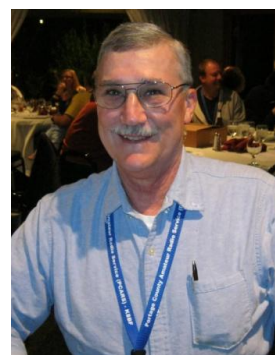
July	
7	N8QE
14	WB8LCD
21	KA8TOA
28	K8CAV

August	
4	K8YLK
11	N8WCP
18	KD8WCK
25	KA8TOA

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

Flex Net

Rick, K8CAV
Flex Net Coordinator



The PCARS Flex Net for the month of June has been **cancelled** due to preparations for Field Day.

Flex Nets will resume in July, check the next newsletter and QST emails for specifics.



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



Two New SDR Kits at FDIM & More

Bob, KD8CGH

The annual QRP ARCI Four Days In May (FDIM) meeting in Dayton starts the day before Hamvention with talks and a vendors night followed by a night for member show and tell and a banquet. The meeting focuses QRP operations and building equipment. This year two new multiband, multimode HF transceiver kits being introduced were shown.



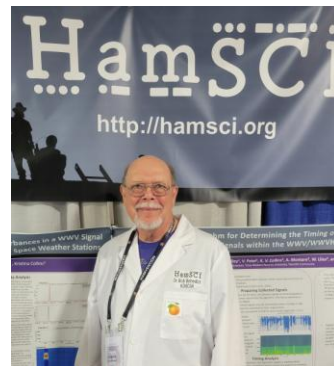
of transceivers designed by Farhan. The sBITX is a hybrid superhet/SDR with a crystal filter at its 40 MHz IF. This can provide the sharp roofing filter of a superhet with the benefits of SDR for filters, modes and other features. This hybrid design approach is also the used by the Yaesu FTDX-10 and top end Elecraft K4HD.

It is a stand alone transceiver based on a Raspberry Pi and features a 7" touch screen display. The software is written in C and is available on github <https://github.com/afarhan/sbitx>. It covers 80 to 6 meter bands and can deliver up to 40 watts RF on transmit. In addition to side band and CW, digital modes FT8, PSK31 and RTTY are built in with plans to add SSTV, FreeDV and others. The Pi has built in Ethernet, WIFI and Bluetooth. The software already supports telnet to RBN, DX clusters and other web based resources. It has a simple user interface with 2 rotary encoders and relies on the touch screen for most user input. You can also attach a Bluetooth or USB keyboard.

Farhan spoke on the sBITX previously at FDIM and on other occasions. He brought an sBITX to vendors night that you could see in operation attached to a simple indoor wire antenna. He also distributed a one page summary of the transceiver.

Farhan has often stated that he sees his devices as platforms to explore and build on. There is an active community of builders that have contributed hardware and software mods to the BITX and uBITX at BITX20 on groups.io. This resulted in 6 hardware revisions of the uBITX, a cottage industry of hardware add ons and many software upgrades. The first release of the sBITX is functional, but aimed at homebrewers and software developers. The "developer" edition is scheduled to ship June 1st priced at \$399 including Pi and display from HF Signals <https://www.hfsignals.com/>. Regular production is expected to start in July. Past kits have had all components mounted including torroids and just need connections to display, controls and jacks and a case.

The **T41-EP** is a collaborative development by hardware expert Al Peters and software expert Jack Purdum. I still have C programming books written by Jack in the '80s on my bookshelf. It follows several smaller projects they have collaborated on. This is a pure SDR transceiver based on the Teensy 4.1 microprocessor. The EP stands for experimenters platforms. Like the sBITX this is a base you can add features to.



One from Ashar Farhan (VU2ESE) and one from Jack Purdum (W8TEE) and Al Peters (AC8GY). They are both open source designs and software. They both include spectrum and waterfall displays and the rich mode and feature set typical of an SDR. Both are designed as platforms for further development and a learning tool for builders. Functioning transceivers were on display at vendors night and a talk was given on the T41-EP.

The **sBITX** follows the popular BITX and uBITX lines



Unlike the sBITX the T41 does not use a touch screen but relies on a matrix of buttons for control. It presently covers 5 bands 80, 40, 20, 15 and 10 and provides about 20 watts RF. This release provides CW and SSB modes.

Jack and Al have given several presentations on the T41 that are available online. Their talk at FIDM focused on the CW decoder software. They have also published the book “Software Defined Radio Transceiver: Theory and Construction of the T41-EP Amateur Radio” that details the design of hardware and software and construction of the transceiver. Software, PCB gerber files and 3D printed case files are available online and there is an active group called SoftwareControlledRadio on groups.io.

The T41-EP is built as a set of small modules on separate PCBs (see picture). This is a good way to build a complex project as you can test each module after building and possibly upgrade modules in the future. The

downside is that the resulting transceiver is not as compact. Home builders are already ordering PCBs. You can order a set for \$24 by joining a group buy on the groups.io. Shirley Dulcey (KE1L) reported that Four State QRP plans to offer kits. A semi kit with boards populated with SMT components, T41 and 5 inch display is expected to cost about \$250.



In addition to the these SDRs, Hams Summers gave a talk on development of the QDX QRP multiband digital transceiver and brought a suitcase full of radios to sell at vendors night. On the opposite side of SDR, Grayson Evans (KJ7UM) gave a talk on Building Thermatron (tube) Amplifiers and had a table at vendors night selling his book “Hollow State Design”. Other talks included one by Ashar Farhan (VU2ESE) on analog radios and one by Adam Kimmerly (K6ARK) on building extremely small transceivers.

If you are interest in QRP and/or building radios this is a great conference to attend before going to Hamvention. See you there next year.

Alliance Radio Club Raffle

Each year since 2020, the Alliance Amateur Radio Club in alliance, OH has raffled off a HF Rig. With each year, the interest grows. A portion of the money raised goes back into the Alliance area in the form of donations to local service groups at Christmas Time.

In 2021, moneys from our raffle combined with proceeds from the fundraiser at our Annual meeting allowed us to donate over \$1000 to Charities in the Alliance Ohio area.

This year, we’ve chosen as our raffle item, an Icom IC-7300 HF + 6M Radio.

The winning ticket will be drawn on July 13th. The winner need not be present to win. You can learn more, and purchase tickets at <https://www.w8lky.org/about-us/2022-fundraiser/>. Questions can be directed to <mailto:fundraiser@w8lky.org>



2022 Inductees to the CQ Amateur Radio and Contesting Halls of Fame

(Xenia, OH – May 21, 2022) – CQ magazine today announced the induction of two new members to the CQ Contest Hall of Fame, which honors those contesters who not only excel in personal performance but who also "give back" to the hobby in outstanding ways. CQ World Wide DX Contest Director and former CQ Contesting Editor John Dorr, K1AR, presented Hall of Fame plaques at an induction ceremony held at the annual Dayton contest dinner on May 21.

The 2022 inductees to the CQ Contest Hall of Fame are:

David Pascoe, KM3T, a highly-accomplished multi-op and single-op contester with many championships and record scores to his credit, who is also responsible for much of the "back room" infrastructure behind the administration of many major contests. He is the infrastructure and IT security "departments" for all of the contests supported by the World Wide Radio Operators Foundation (WWROF), including all CQ contests, several ARRL contests and others. He also maintains the e-mail lists contesting.com system, including CQ-Contest, 3830 and more. He is also a pioneer in live contest audio streaming, and is a volunteer pilot for two organizations that provide free medical-related air travel.

Craig Thompson, K9CT, a world-class contester and promoter of youth in contesting. He developed the North American Collegiate Championship (NACC) program, in which college amateur radio clubs compete against each other in the context of the larger competition of the North American QSO Party. Craig also worked closely with Tim Duffy, K3LR, to develop a version of the Contest University (CTU) program specifically designed to integrate with each year's W9DXCC Convention. He is also involved in several amateur radio organizations, serving as treasurer of CWops, a board member of the Northern California DX Foundation (NCDXF), past president of the Society of Midwest Contesters and is currently chairman of the ARRL Contest Advisory Committee.

The CQ Contest Hall of Fame was established in 1986 to recognize those amateurs who have made major contributions to the art of radio contesting. This is the 39th annual induction.

CQ DX Hall of Fame

There will be no inductees to the CQ DX Hall of Fame for 2022, as the judging committee determined that none of the nominees met the high standard required for selection.

CQ Amateur Radio Hall of Fame

The CQ Amateur Radio Hall of Fame honors those individuals, whether licensed hams or not, who have made significant contributions to amateur radio; and those amateurs who have made significant contributions either to amateur radio, to their professional careers or to some other aspect of life on our planet. The 2022 inductees (listed alphabetically) are:

Franklin P. Antonio, N6NKF (SK), co-founder of Qualcomm, whose chips underlie much of our modern technology. Antonio was particularly involved in the company's satellite work and was a philanthropist as well, donating \$30 million to the University of California at San Diego as seed money for a new engineering building.

Wolf Harranth, OE1WHC/OE3WHC (SK), journalist and broadcaster on Radio Austria International; founder of Austria's radio documentary archive (DokuFunk), now the world's largest archive on the history of radio, including the YASME/Colvin collection; literary translator and 2017 recipient of the IARU Region 1 Roy Stevens memorial award for his work on DokuFunk.



2022 CQ Contest Hall of Fame inductees Craig Thompson, K9CT (L) and Dave Pascoe, KM3T (R).
(Photo by Tom Roscoe, K8CX)

Les Kramer, WA3SGZ, inventor of lower-limb prosthetic devices used by some 3000 people worldwide, including two survivors of the Boston Marathon bombing; as well as multiple other inventions in the fields of electric power generation, IED detection, optical coatings for industrial processes and more.

Roy Lewallan, W7EL, author of EZNEC antenna modeling software that has become the standard platform for designing and modifying amateur radio antennas.

Peter Marks, AB3XC, physician and head of the U.S. Food and Drug Administration's "Operation Warp Speed" program to combat COVID-19. Dr. Marks leads the team at FDA that reviewed and approved all of the available vaccines for COVID-19 as well as all intravenous therapeutics such as Convalescent Plasma, Monoclonal antibodies and diagnostic testing.

Bob Ringwald, K6YBV (SK), well-known blind jazz musician in Sacramento; co-founder of the Sacramento Jazz Festival; known locally as "the emperor of jazz" and, last but not least, father of actress and singer Molly Ringwald.

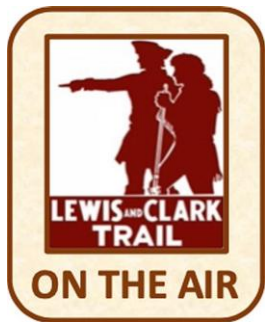
R. Scott Wright, K0MD, physician and leader of Mayo Clinic team developing the use of Convalescent Plasma as one of the first treatments for Covid-19; DXer, contest, former editor of the National Contest Journal.

News from the ARRL



Lewis and Clark Trail on the Air

The Lewis and Clark Trail on the Air special event is scheduled for June 4 - 19, 2022.



The Clark County Amateur Radio Club is sponsoring the inaugural event, and we hope to make it a yearly occurrence. There will be at least one club on the air in each of the 16 states covered by the trail, and the clubs are as excited as we are about the event. The operating modes are SSB phone, FM phone (2 meters only), CW, and FT8. Those that contact all 16 states will receive the Expedition Partner Certificate, and those that contact 1 - 15 states can receive the Trail Companion Certificate. Check the website, <https://lctota.org>, for certificate examples and additional information. Our committee is working hard to make this a top-notch event. Be sure to mark your calendars!

ARRL International Digital Contest Premieres in June

The inaugural ARRL International Digital Contest occurs during the first full weekend of June (June 4 - 5, 2022). All digital modes, with the exception of RTTY, are allowed in the event. In addition to the event being eligible for the ARRL Affiliated Club Competition, a team competition consisting of teams of 2 to 5 Single Operator stations is also available. Teams must be registered before the start of the event at <https://contests.arrl.org/teamreg.php?eid=31>. For full rules, please visit <https://contests.arrl.org/dig/>.

Bulletin

Presentations from 2022 Contest University are Now Available

Select sessions from 2022 Contest University were live streamed by DX Engineering via YouTube and Facebook. Those who missed the live streams can view the presentations at <https://www.youtube.com/watch?v=drZCwoVzUqE>. Presenters shown in the video include Frank Donovan, W3LPL; Tim Coker, N6WIN; Ward Silver, N0AX, and Bob Sherwood, NC0B. Thanks to Tim Duffy, K3LR; Icom America, and DX Engineering for providing the video of the event.



Portable Ops Special Interest Group

John, WG8X
Portable Ops SIG Coordinator



June 8, 2022 - Topic is Hamvention®

This month's in the Portable Operations SIG (Special Interest Group) we'll be talking about Hamvention®. Good, bad, what did you buy, who'd you see, etc.

This month will again be a hybrid meeting. We'll talk about all manner of subjects to do with portable operation. Yes, we speak QRP, mobile, antennas; anything to do with operating in the field. You never know what we'll be discussing. As always, we'll be entertaining your show & Tell, and questions.

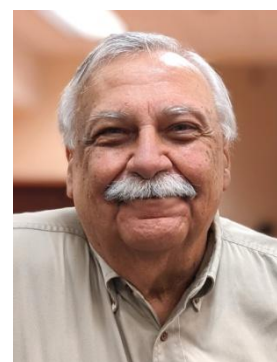
We'll be meeting on June 8th, at 7PM in person or via Zoom. Here's the link:
<https://us02web.zoom.us/j/89732195744?pwd=cldtZmxMcmFqQndhQWtJN0s2NUNnUT09>

Meeting ID: **897 3219 5744**
Passcode: **PCARS2022**

We'll also be in person at PCARS World Headquarters, 705 Oakwood St, Ravenna. Hope to see you there.

DX and Contest Special Interest Group

Chuck, W8PT
DX & Contest SIG Coordinator



Hello to all the PCARS DXers and Contesters

We held our Special Interest Group meeting on May 24, at the club site. This was a different type of meeting in that we ended up joining the Mercer County Amateur Radio Club by ZOOM to take part in their program.

They had two Keynote speakers: the Editor of the Daily DX and noted DXer, Bernie McClenny W3UR and longtime DX operator Rol Anders, K3RA Their presentation was titled "DX—Working the World" with "History and Tips for Working 'em".

The program was well attended by both of the clubs and the presentation was very informative, especially if you only work DX occasionally or are hesitant to work it because you feel you don't have a strong enough station. Their program ran from about 7:30 until well after 9PM. With two speakers, they had a lot to share with the groups about DX and how to work it and what can be expected in the coming months.

They encouraged everyone listening to get on the air and work DX given the sunspot count and the increased propagation on almost all of the bands.

Our next meeting will take place from the club site on June 28th at 7PM. Hope to see many of you there.



Digital Special Interest Group

Rick, K8CAV
Digital SIG Coordinator



Tuesday June 7th at 7:00 PM

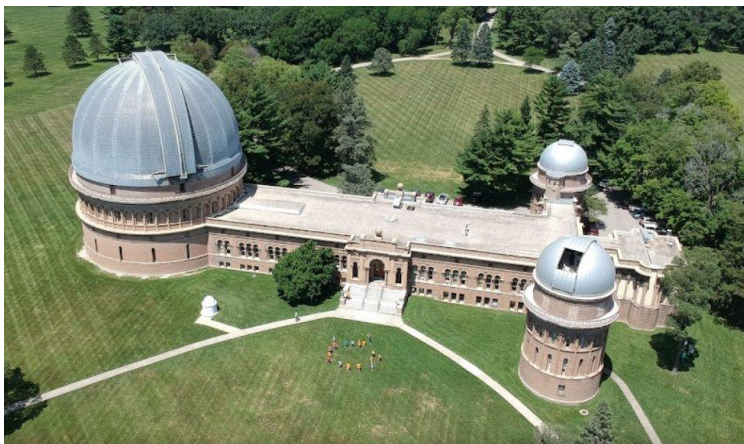
The PCARS Digital Special Interest Group meeting will take place on Tuesday June 7th at 7:00 PM at the club site. This month's meeting will be reviewing digital and logging software that the Flex Station will be using during Field Day. This will include using the IC-7300 with that software. All digital operators that have signed up for the Flex Station are encouraged to attend this meeting.

Paper Chase - Yerkes Observatory

Joe, W8KNO

Reopening of Yerkes Observatory

an astronomical observatory located in Williams Bay, Wisconsin, was operated by the University of Chicago Department of Astronomy and Astrophysics from its founding in 1897 until May, 2020.



Ownership was then transferred to the non-profit Yerkes Future Foundation (YFF), which began restoration and renovation of the historic building and grounds.

The observatory's main dome houses a 40 in-diameter doublet lens refracting telescope, the largest refractor ever successfully used for astronomy. Two smaller domes



house 40-inch and 24-inch reflecting telescopes.

To commemorate the re-opening, the Walworth County ARES®/RACES will operate a special event station from the site. Operation will take place June 25th and 26th from 11:00 am till 8:00 pm local time on 80, 40 and 20 meters.

A Certificate can be obtained from:

Elijah Larson, K9ILJ - 113 South St. W - Fort Atkinson, WI 53538



Charlie the Tuner's HF High-Lites

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



Greetings DXers

Charlie the Tuner's DX High-Lites – June 2022

Boy does the year go fast or what. In just a few weeks we will have the longest day and then it's starts all back downhill. But that still leaves us with a lot of Summer and Fall to get things done outside, if we have antenna, tower or other outdoor projects to get down. And then there are honeydoes that those of us who have XYLs, need to complete.

All in all, it can be a very busy summer. Then there are the Hamfests and other HAM gatherings that we would like to attend. I don't think I need to say more. Just have fun in the hobby no matter what time of year it is. GET ON THE AIR!!!

Thanks to the Northern Ohio Amateur Radio Society, Northern Ohio DX Association, Ohio/Penn PacketCluster Network, the AB5K's AR Cluster Networks, NJ1Q & W1AW, NG3K & ADXO, W3UR & The Daily DX, W4VQ, WA4DAN, WB6RSE, K8YSE, W8GEX & 60m DX News, DL1SBF, DL7UXG & The DX News Letter, DXNews.com, DX-World.Net, F6AJA & Les Nouvelles DX, G4MWO, I1JQJ/IK1ADH & 425 DX News, JI3DST, LA4LN, Sixitalia Weekly, and VA3RJ & ICPO for the following DX information.

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

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

June...

9A302, CROATIA (Special Event). Tom, 9A2AA, is now active as 9A302AA from Split, Croatia, to celebrate Croatia's 30th anniversary of independence until July 13th. QSL via 9A2AA.

9M22, WEST MALAYSIA. Look for special event callsign 9M22DX to be active from West Malaysia between June 1-30th. Activity is to promote Summits on the Air (SOTA) and DX. Operator Hilmi/9M2CDX, Afiq/9M2KDX, Wan/9W2EYR, Jalee/9W2VGR, Herry/9W2HXP, Mohd/9W2KVW, Mohd/9M2JDX, Khairil/9W2WPZ, Dahlan/9M2LAN and Abdul/9W2DQM will use this callsign between June 3-5th from the Bukit Perangin summit. Activity will be on various HF bands and modes. Equipment will be an IC-7300, FT897D, HF multiband G5RV, solar equipment, battery and power supply. The event will continue as DX between June 6-30th as Malaysia DX 2022 station. QSL 9M22DX via 9M2CDX direct or ClubLog.

C5, THE GAMBIA. Operators Gérard/F5NVE, Abdel/M0NPT (7X2TT) and Luc/F5RAV will once again be active as C5C from Kololi (WW Loc. IK13PK), The Gambia, until June 7th. The team also hopes to be active again from Bijol Island (AF-060) as C5B. Look for more details to be forthcoming.

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

DU, PHILIPPINES. Reminder Mike, W6QT, will once again be active as DU3/W6QT from Subic Bay, Philippines, between May 1st and September 15th. Activity will be on various HF bands using SSB and FT8 with wire arrays and other home-brew antennas with less than 100W. QSL via W6QT, direct, by the Bureau, eQSL, ClubLog and LoTW.

FK, NEW CALEDONIA. Reminder Jean-Louis, F5NHJ is QRV as FK/F5NHJ from Noumea until June 11. Activity is holiday style on the HF bands using CW, SSB, and various digital modes. QSL via LoTW.

JD1, OGASAWARA. Koh, JA1ADT, active as JD1AJD from Ogasawara (AS-031) June 24th to July 2nd. Will be on 20-6 m using CW and FT8. He plans to focus on 6m Europe and North America using a Yagi antenna and 500 watts. QSL via his home callsign.

JV, MONGOLIA. Operators Andrey/R9YU and Gennady/R5QA departed on May 5th to activate Bayan-Ölgii Province (WW Loc. NN48bs, WWFF JTFF-0001) as JV0YU. Activity should last until June 10th. Operations will be on 160-2 meters, 70cm and the 60/30/17/12m bands using CW, SSB and FT8 (F/H).

JX, JAN MAYEN. Reminder Rune, LA7QY and Helge, LB4MI are QRV as JX7QY and JX/LB4MI, respectively, until October while on work assignment. Activity is in their spare time on the HF bands using CW and SSB. QSL via LoTW.

PF01, THE NETHERLANDS (Special Event Reminder). Frans, PC2F, active as PF01MAX during each weekend until Nov 20th, during the Formula-1 2022 season. Schedules are available on QRZ.com. QSL via PC2F, direct, by the Bureau, eQSL or LoTW.

S9, SAO TOME (Update/Change). RYAN, K0EFW, will be active as S9EFW from Sao Tome (AF-023) starting the second week in June (not May), mainly June 14-19th. Activity will be on 40/20/15/10 meters using primarily SSB with and Icom IC-7300 w/100w into an End-Fed Half Wave antenna. QSL via K0EFW or LoTW.

July...

3A, MONACO. Ops Paul/F6EXV and Flo/PB8DX will be active as 3A/F6EXV and 3A/PB8DX, respectively, from Monaco during the first half of July. Also, look for special activity on 6 m as 3A6M, thanks from some help by local members of Association of Radio Amateurs from Monaco (ARM). Paul states, "QSL 3A/F6EXV, 3A/PB8DX and 3A6M via F6EXV on ClubLog. Please do not send your card, only use ClubLog. QSL via ClubLog for direct or Bureau. LoTW will be uploaded in full 6 months after the operation.

MD7, ISLE OF MAN. Rich, M5RIC, will be active as MD7C from the Isle of Man (EU-116) during the RSGB IOTA Contest (July 30-31st) as a Single-Op/ SSB-Mode entry. QSL via M0OXO.

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

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

IOTA News...

EU-006. Fred, ON6QR, will be active as EI/ON6QR from **Aran Island** during the RSGB IOTA Contest (July 30-31st) as a Single-Op/DXpedition/ 24-Hrs entry. QSL via his home callsign.

EU-027. Francesco, IK6QON, will be active as ID9/IK6QON from **Lipari Island** between June 4-10th. Activity will be holiday style on various HF bands using CW and SSB, with a multi-band vertical and 100W. QSL via IK6QON, direct or by the Bureau.

EU-045. Alessandro, IU3EDK, will be active as IB0V from **Ventotene Island** during the RSGB IOTA Contest (July 30-31st). Activity will be holiday style and there may be operations before and after the contest. QSL via IU3EDK, direct or by the Bureau.

EU-050. Franco, IZ5IUY, will be active as IL7/IZ5IUY from **San Domino Island, Tremiti Archipelago**, between July 2-21st. Activity will be on 80-2 meters using SSB and FT8/FT4. QSL via IZ5IUY, direct or by the Bureau (preferred).

EU-125. Stefan, DL7AOS, will be active as 5P5K from **Romo Island** between June 4-18th. Activity will be holiday style with an emphasis on SSB and the Digital modes on 80-6 meters. His station will consist of an Icom IC-7300, Expert 1k-FA amplifier, multi-band vertical antenna (80-10m) and Moxon-beam for 6m. QSL via DL7AOS, by the Bureau, direct or LoTW.

Those of you who had been complaining about band conditions should have nothing to say these days. The bands have been open more than not for all modes. Get on the air. 73 until next month.



3905 Century Club Eyeball Coming to Brimfield



Gene, W8NET



The 3905 Century Club is having our 2022 Eyeball meeting in Brimfield, Ohio July 28 through 31, 2022. Your intrepid reporter is the host this year. The main venue will be the Brimfield Community Center at 4538 Edson Rd, Kent (Brimfield), OH 44240.

What is an Eyeball? It is a multi-day get together of 3905 Century Club amateur radio



operators and their families to spend time together in a different part of the country every year. Highlights include QRP nets, club awards, annual board meeting, mobile shoot out, meals, field trips and much more. Many members also provide mobile contacts while to and from the Eyeball. Last year, it was held in Mississippi.

The 3905 Century Club is an international amateur radio club founded in 1977. For over 45 years the club has operated the premier Worked All States, DX and awards nets on the amateur bands and has thousands of members across the globe.

If you want to earn your WAS award or other fun awards this is the place to do it. We run nets on 20m, 40, 80, and 160m in SSB, RTTY, PSK and CW modes. We also offer over 40 awards.

As usual, we will have QRP nets, our annual in-person board meeting, and many other activities. I want to highlight two.

FIRST: One of the high points every year is our Mobile Shootout. For those new to the Club, every year at our Eyeball gatherings, we hold an event called the “Mobile Shootout.” Its purpose is to measure the effectiveness of entered contestants’ own mobile installations. Having an effective mobile setup takes more than just slapping an antenna on your bumper and connecting it to a radio. This competition provides valuable clues about how your installation stacks up.

So, who are the mobile big guns on our nets? And who among them is the “Top Gun?” We all have our opinions, but the Shootout will objectively measure each mobile's signal strength, controlling the variables. When the smoke clears there will be only one wearing the “Top Gun” hat. Will you be the one?



Producing the most powerful signal downrange depends on several components that comprise the complete mobile system. The mobile system includes the antenna itself, the vehicle it is mounted on, the mounting location on the vehicle, the quality of grounding and bonding, and so forth. The Mobile Shootout provides a measurement of the combined effect of ALL these factors via the observed signal strength at the other end of the range.

Any paid attendee at the Eyeball can try their hand at the Mobile Shootout. AND, as a PCARS member, YOU CAN TRY IT AS WELL – FOR FREE! On-site registrations are welcome, but I suggest registration online is better, and faster! The Mobile Shootout is Saturday, July 30 at 9:30am to noon.

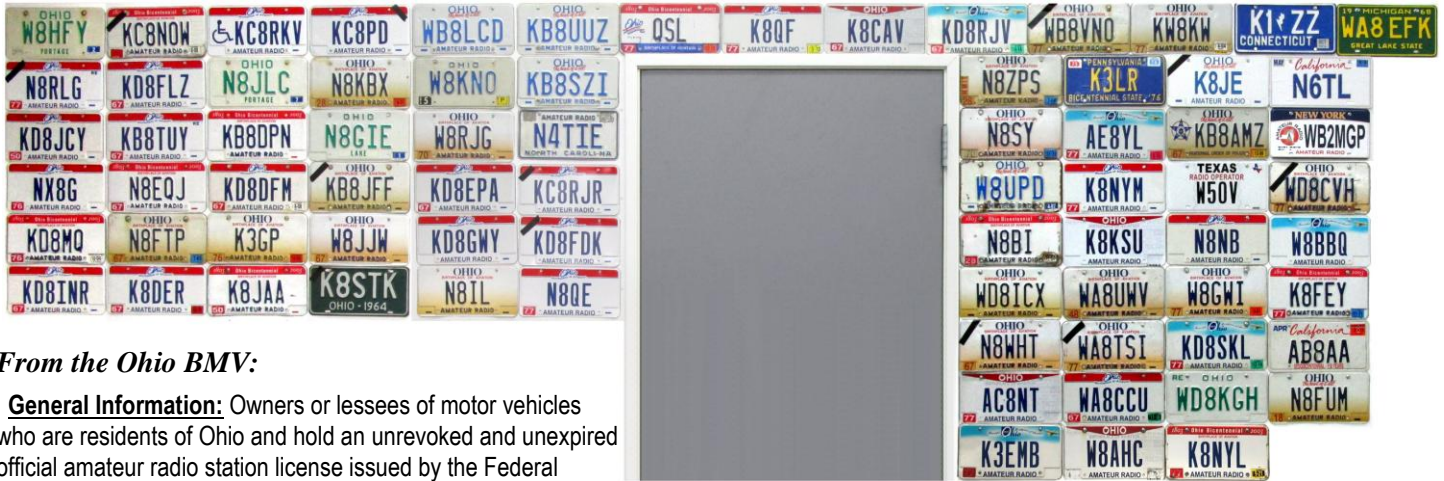
SECOND: The 3905 Century Club will be visiting the PCARS club site on Net Night, July 28, 2022! Some PCARS members know members of the 3905 CCN. This is your chance to meet them in person again. For others, it is a chance to meet another group of incredible amateur radio operators. We will have extra pizza, snacks and soda/water for net night. ALSO, the 3905 CCN will have a “special gift” to PCARS, before the net begins. Big secret. Something old and fun!

All of the details about the 2022 3905 Century Club Eyeball can be found at www.3905ccn.org, or contact Gene Marsh, W8NET at w8net@me.com or 330-619-9194. See you in July!

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

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

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



From the Ohio BMV:

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

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

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

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

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

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

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

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

PCARS is on YouTube

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



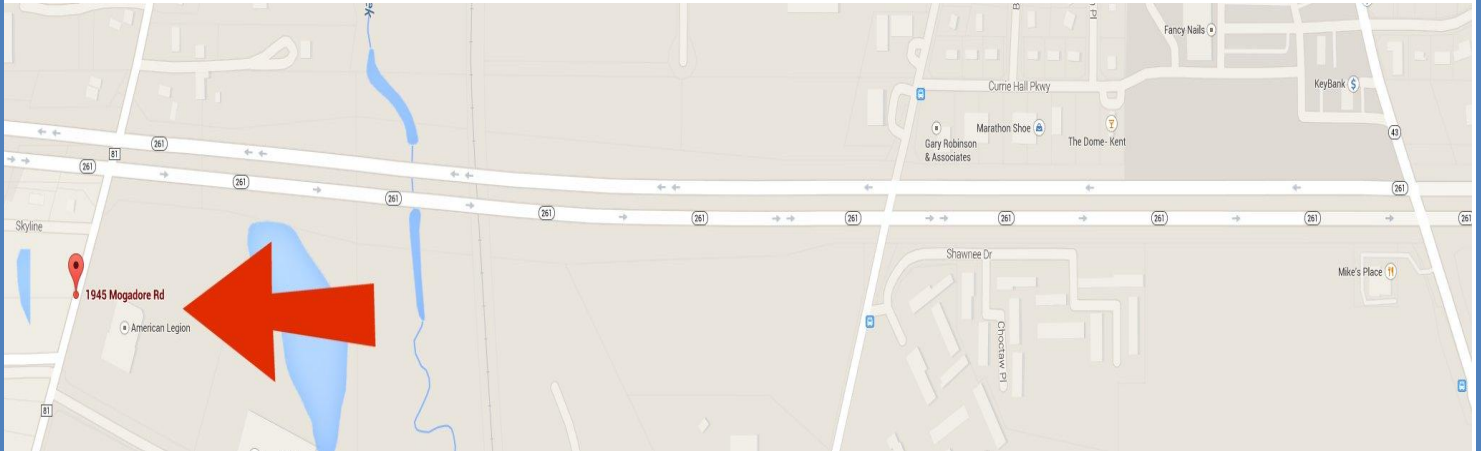
PCARS Meetings

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



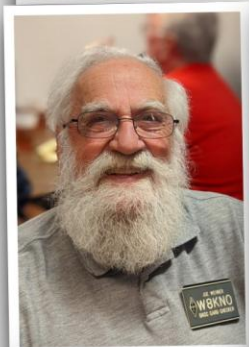
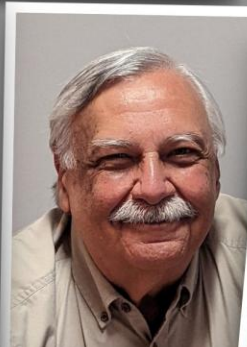
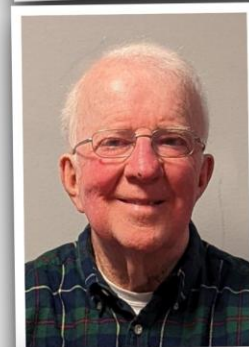
*The picture on the left shows
The American Legion Post 496
as viewed from Mogadore Road.
(looking East)*



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.

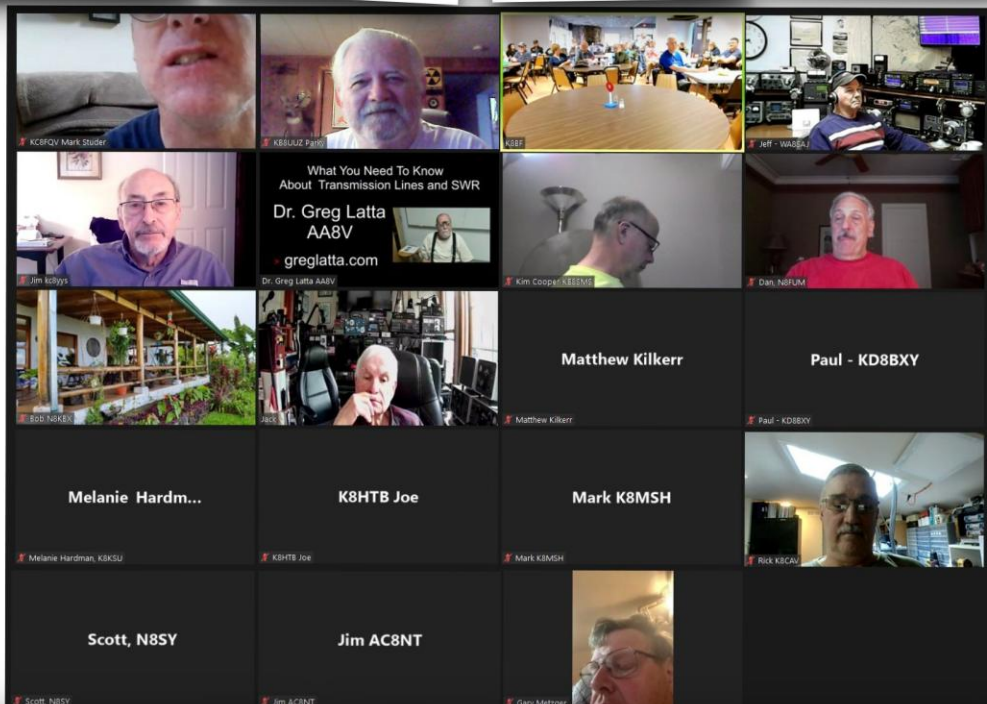
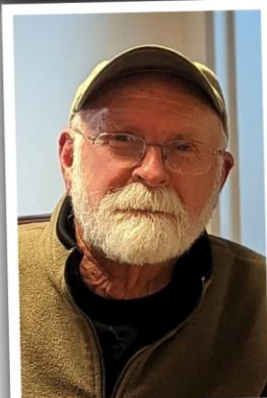
If you are a member of the The American Legion, The American Legion Auxiliary, or the Sons of The American Legion, bring your ID card as you get a substantial discount on adult beverage pricing.

Photos from the May Meeting



PCARS
May 9
2022





PCARS

May 9, 2022



Amateur Radio GENERAL Class ~ Upgrade Class ~



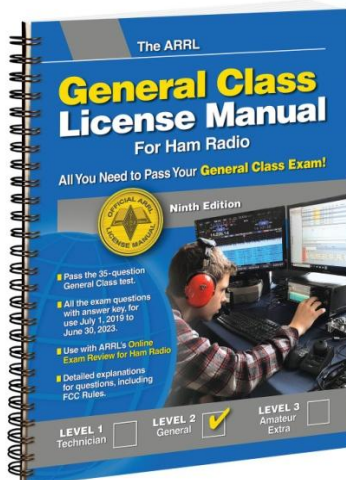
The Portage County Amateur Radio Service, Inc. (PCARS) is offering a General Class upgrade course

When: **Wednesday Evenings 7:00 p.m - 9:00 pm.**
June 8, 2022 through July 27, 2022
License testing after last day of class - August 6th

Where: At the PCARS Club Site located in the Dietrich Building
705 Oakwood Street - Ravenna. **Also available on ZOOM**

Cost: \$25.00 registration fee for non-PCARS members.
There is **no** fee for current PCARS members

Text: ARRL "*General Class License Manual*" Book may
be purchased from PCARS, DX Engineering or the ARRL



Class Schedule 6/8/22 - 8/6/22

Chapter 1 - Study On Your Own
6/08 - Chapters 2 & 3
6/15 - Chapter 4
6/25 - ARRL Field Day Break - No Class
6/29 - Chapter 5
7/6 - Chapter 6
7/13 - Chapter 7
7/20 - Chapter 8
7/27 - Chapter 9
8/6 - Saturday VE Test Session - 10 am

[See PCARS Newsletter for VE Test Details]



As a **General Class Amateur Radio Operator** you will be able to Contact other ham radio operators in the area around the world on the HF Bands.

It will open up a whole new area of fun for you in Amateur Radio.

Contact: **Jim Wilson, AC8NT**
Registration: by e-mail: jawilson@j3solutions.com
or phone: **330-671-0849**



Please register with Jim, AC8NT as soon as you can.
Check with Jim, AC8NT about the \$25 class fee payment details.

THERE WILL BE A FIVE STUDENT MINIMUM (or no class will be done)

Annual WRARC Libraries On The Air (LOTA) Contest

Saturday // June 18th

9am–4pm

Main Library

305 Wick Ave., Youngstown, OH



Come and join the Western Reserve Amateur Radio Club for a day of amateur radio contesting.

All Ages Welcome!

No License Required!



Awards will be given to every participant based on the points they earn. Earn points by making contacts and extra points for making contacts under certain criterias. Not sure how to contest? There will be plenty of experienced operators eager to help you learn and get you on the air! Come out and have some fun!

Annual WRARC Libraries On The Air (LOTA)

Saturday // June 18th

9am–4pm



Bands: All amateur bands except 60, 30, 17, and 12 meters are permitted.

Repeaters are not to be used. Only recognized simplex frequencies may be used. The national calling frequency, 146.52 MHz, may not be used.

Exchange: Your Call Sign, Signal Report, Class (Library/Non Library), U.S. State, Canadian Province/Territory, or DXCC Country/Entity.

Scoring:

- Phone = 1 QSO Point**
- Digital = 2 QSO Points**
- CW = 3 QSO Points**
- Library Class = 5x Multiplier**
- QRP (5 watts or less) = 2x Multiplier**

Awards: Awards will be given to all participants.

- Encyclopedia = 5,000+ Points**
- Novel = 2,500–4,999 Points**
- Short Story = 0–2,499 Points**

Logs: Paper logs can be submitted via email or mailed. Electronic logs will be accepted via email in the following formats: excel, word, pdf.

Email: LibrariesOTA@gmail.com

Mail: PO Box 4271, Austintown, OH 44515

To obtain logs or forms, or if you have any questions, please email us at LibrariesOTA@gmail.com

Lucas Electrics

From Rex, NX8G

Electrical Theory - by Joe Lucas

Positive ground (they meant "earth") depends on proper circuit functioning, which is the transmission of negative ions by retention of the visible spectral manifestation known as smoke.

Smoke is the thing that makes electrical circuits work. We know this to be true because every time one lets the smoke out of an electrical circuit, it stops working. This can be verified repeatedly through empirical testing.



For example, if one places a copper bar across the terminals of a battery, prodigious quantities of smoke are liberated and the battery shortly ceases to function. In addition, if one observes smoke escaping from an electrical component such as a Lucas voltage regulator, it will also be observed that the component no longer functions. The logic is elementary and inescapable!

The function of the wiring harness is to conduct the smoke from one device to another.

When the wiring springs a leak and lets all the smoke out of the system, nothing works afterward.

Starter motors were considered unsuitable for British motorcycles for some time largely because they consumed large quantities of smoke, requiring very unsightly large wires.

It has been reported that Lucas electrical components are possibly more prone to electrical leakage than their Bosch, Japanese or American counterparts. Experts point out that this is because Lucas is British, and all things British leak. British engines leak oil, British shock absorbers, hydraulic forks and disk brake systems leak fluid, British tires leak air and British Intelligence leaks national defense secrets.

Therefore, it follows that British electrical systems must leak smoke. Once again, the logic is clear and inescapable.

In conclusion, the basic concept of transmission of electrical energy in the form of smoke provides a logical explanation of the mysteries of electrical components especially British units manufactured by Joseph Lucas, Ltd.

The Lucas motto: Get home before dark.

Lucas is the patent holder for the short circuit.
Lucas - Inventor of the first intermittent wiper.
Lucas - Inventor of the self-dimming headlamp.

The three-position Lucas switch--DIM, FLICKER and OFF. The other three switch settings--SMOKE, SMOLDER and IGNITE.

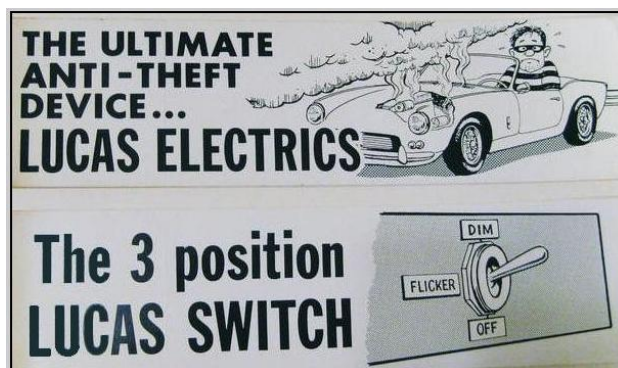
The Original Anti-Theft Device - Lucas Electrics.

If Lucas made guns, wars would not start either.

Back in the '70s, Lucas decided to diversify its product line and began manufacturing vacuum cleaners. It was the only product they offered which did not suck.

Q: Why do the British drink warm beer? A: Because Lucas makes their refrigerators.

Alexander Graham Bell invented the Telephone. Thomas Edison invented the Light Bulb. Joseph Lucas invented the Short Circuit



Thanks & 73



Parky, KB8UUZ
PCARS Newsletter Editor



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

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

AC8QG, N8WCP, WA8EFK, N8SY, WB8LCD, KB8UUZ, WB2MGP, WA8AR, K3GP, KB8TUY, K8CAV, K8IV, WG8X, NO8D, KA8TOA, KD8CGH, W8PT, W8KNO, W8NET, AC8NT, NX8G, Daily Gazette, Record Courier, CQ Blog, The ARRL and the World-Wide Web

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



BEST EVER SENIOR CITIZEN JOKE

A little silver-haired lady calls her neighbor and says, "Please come over here and help me. I have a killer jigsaw puzzle, and I can't figure out how to get started." Her neighbor asks, "What is it supposed to be when it's finished?"

The little silver haired lady says, "According to the picture on the box, it's a rooster."

Her neighbor decides to go over and help with the puzzle. She lets him in and shows him where she has the puzzle spread all over the table.

He studies the pieces for a moment, then looks at the box, then turns to her and says,

"First of all, no matter what we do, we're not going to be able to assemble these pieces into anything resembling a rooster."

He takes her hand and says, "Secondly, I want you to relax. Let's have a nice cup of tea, and then," he said with a deep sigh.....

**"Let's put all the Corn Flakes
back in the box."**

**ONE MINUTE YOU'RE 21,
STAYING UP ALL NIGHT DRINKING
BEER, EATING PIZZA AND DOING
SKETCHY STUFF JUST FOR FUN.
THEN...
IN A BLINK OF AN EYE YOU'RE
50, DRINKING WATER, EATING
KALE AND YOU CAN'T DO ANY
SKETCHY STUFF, BECAUSE
YOU PULLED A MUSCLE
PUTTING ON YOUR SOCKS.**

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

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

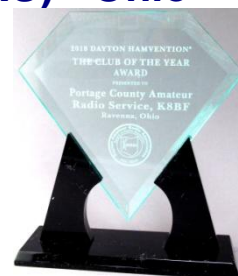


PCARS meets the second Monday of each month at the **Kent American Legion Post 496**,
1945 Mogadore Rd. - just South of Rt. 261 - Enter the rear of the building for the meeting room.

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



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

 PCARS Active Volunteer Examiner Team Members	KB8UUZ	Tom Parkinson
	AC8QG	Nick Wagner
	AC8NT	Jim Wilson
	N8QE	Bob Hajdak
	KA8TOA	Greg Ash
	WA8CCU	Al Nagy
	N8PXW	Jim Korenz
	K8IV	Ed Polack
	N8AMY	Amy Leggiero
	N8FUM	Dan Torchia
	N8XTH	Deron Boring
	WB8LCD	Tom Sly
	W8PT	Chuck Patellis
	W8GWI	Dave Seckel
	KC8JC	James "JC" Wilson



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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