



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

July 2021 - Volume 16 Number 7

K8BF 4A OHIO



NET NIGHT IS BACK



PCARS K8BF

The Club that puts the FUN in Ham Radio!





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Portage County Amateur Radio Service



Mike Hutsler, WB8VYW, SK

Mike, WB8VYW - PCARS Charter Member #10 passed away on June 12th from injuries suffered in a boat accident.

Mike was around since PCARS started and was always friendly and ready to start up a conversation with everyone he met. Always a smile and generous with compliments and a good sense of humor, Mike will be missed by all of us here at PCARS.



Obituary Michael Robert Hutsler



Brimfield - Michael Robert Hutsler, age 65 of Brimfield, passed away suddenly on Sunday, June 13, 2021, in Sandusky, Ohio.

He was born September 9, 1955, in Ravenna, Ohio, to parents Robert Allen and Barbara J. (Cannon) Hutsler. Mike graduated from the University of Akron and was an insurance agent/co-owner with Hutsler & Sly Inc.

Mike was passionate about many interests in his life. He was an avid Cleveland Browns fan and former president of the Kent Browns Backers Club, affectionately known as "Turbo." He served as a past Master for Rockton Lodge #316 F&AM and was a past commander of the Akron Power Squadron. Mike was also an active member of the Kent American Legion.



Mike enjoyed watching NASCAR and would travel to Michigan Motor Speedway every year for the race. He kept his boat at the Venetian Marina in Sandusky and spent his weekends there with friends. Mike also looked forward to his annual trips camping with the "boys" in Pennsylvania.

On November 12, 1977, Mike married his beloved Deborah (Rothermel). She survives him as well as their children: Meghan (Tom) Weese and Robert (Sarah) Hutsler, grandchildren: Tommy and Kyle Weese, Autumn, Lorelai, and Dylan Hutsler, as well as his father Robert Hutsler. Michael was preceded in death by his mother Barbara Hutsler on November 24, 2020.



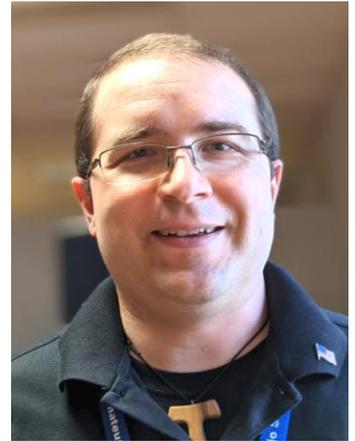
Friends and family were received Monday, June 21, 2021, at the Wood-Kortright-Borkoski Funeral Home, 703 E. Main St., Ravenna, with Masonic Services. Funeral services were officiated by Reverend Bernard Christy on Tuesday June 22nd at the funeral home. Interment followed at Restland Cemetery in Brimfield.

Condolences and memories may be shared at www.wood-kortright-borkoski.com . Memorial contributions may be sent to Hattie Larlham Foundation.

From the President



Nick, AC8QG
PCARS President



" Welcome back to the club site "

We've been slowly transitioning back to in-person activities, and it's been good to see our club site in use again. We're truly fortunate to have such a great place to meet.

Our SIGs have gone hybrid, and you're welcome to join us in-person or by Zoom. We'll continue to offer Zoom as an option wherever it makes sense to do so. Either way, I hope to see lots of participation going forward. The more the merrier!

It was also great to see people in-person at our first Net Night at the Club Site since COVID-19. It was a small crowd, but we all enjoyed some food and fellowship. Not everyone had a lot of time to hang out. Some of our Field Day crew was hard at work gathering equipment and making last minute preparations, but whatever brought them there, I was glad to see everyone.

Field Day

Speaking of Field Day, by the time this is published, Field Day 2021 will have come and gone. I hope most of you were able to participate and have some fun. Bring your best stories to our club meeting and share them with the group. I look forward to hearing about the highs and lows of the weekend.

I'd like to give a big thank you to Tony, WA8AR for being our Field Day Chairman, and also to all our Station Captains. Thanks also to all the volunteers who came out and helped with setup and teardown. Every year it takes significant coordination and effort to pull off a great event, and this year some great people stepped up and took on a lot of uncertainty from COVID-19. **Thank you all.**

Happy 4th of July!

Every year at this time we have a special chance to honor those who pledged their lives, fortunes, and sacred honor to the cause of independence. It's also a chance to honor those who lived and died fighting for that cause. It's an opportunity to celebrate the fact that these patriots risked everything to give us, their real or figurative descendants, a better life.

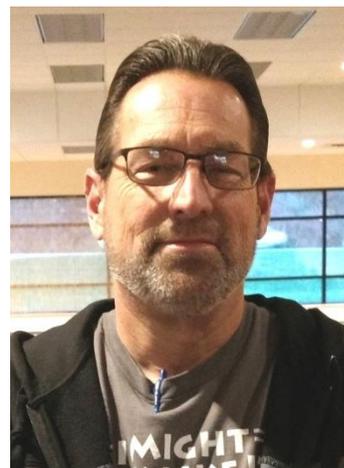
I encourage you to take a moment and tune out all the noise. Step back from the chaos and the noise we deal with every day in this country. Set aside the negativity for a few minutes, and be grateful for what we have here today. **Happy Independence Day, and may God bless America!**



From the Vice President



Mike N8WCP
PCARS Vice President



The big event is over! I'm sure our field day operators did well and everyone enjoyed themselves. Looking forward to the results and pictures from the site.

Did you make it to Net Night at the Club Site? There was a lot of activity as equipment was gathered for field day but there was still time for face-to-face QSO's and everyone seemed to enjoy seeing fellow members.

If you were able to attend our club meeting I hope you found the presentation by Steve Ford, WB8IMY on Cycle 25 beneficial. Steve did a great job and I'm looking forward to having him back in the future.

Carl Luetzelschwab, K9LA will present on HF Propagation at our July meeting. Carl has been a licensed ham for 59 years and spent 41 years as an RF Engineer for Motorola and Raytheon.

We are in need of speakers for our September and October meetings. If you have a recommendation for a speaker or a subject, let me know. This is your club and your input is valued.

Stay radioactive!

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.

- July 6th - PCARS Board Meeting via Zoom - 6:30 pm *(note date change)*
- July 12th - PCARS Meeting - 7 pm at the Kent American Legion and on Zoom
Carl Luetzelschwab, K9LA - Topic is HF Propagation
- July 24th - VOM/DVM Workshop - 9am-12 at the Club Site - Instructor is Rick, K8CAV
- August - Tech & General Upgrade classes - *more info to follow*
- August 2nd - PCARS Board Meeting - Club Site & Zoom - 7 pm
- August 7th - VE Testing at the club site in Ravenna - Starts at 10 am
- August 9th - PCARS Meeting - 7 pm at the Kent American Legion & Zoom
- August 12th - 12th Annual Cruise-In at the A&W in Ravenna - 6- 8 pm
- August 28th - Club Open House & BBQso Party - Ohio QSO Party
- September 7th - PCARS Board Meeting - Club Site & Zoom - 7 pm
- September 11th - Ohio State Parts On The Air (OSPOTA) Contest
- September 13th - PCARS Meeting - 7 pm at the Kent American Legion & Zoom
- December 4th - FYAO at the park in Kent - *more info to follow*

- First Tuesday - **Digital** - Moderator: Rick, K8CAV
- Second Tuesday - **Portable Ops** - Moderator: John, KD8MQ
- Third Tuesday - **Antenna** - Moderator: Tony, WA8AR
- Fourth Tuesday - **DX & Contest** - Moderator: Chuck, W8PT

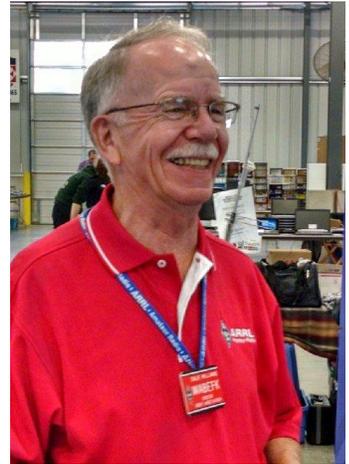
Fourth Thursday - Net Night at the Club Site - 6:30 pm - Moderator: Tom, WB8LCD



From the Great Lakes Division Director



Dale, WA8EFK
ARRL Great Lakes Division Director



Greetings, welcome to "Dale's Tales" for July, 2021.

For the most part we seem to be getting past the serious Covid-19 issues and some state close to normal is returning to the Great Lakes Division. The personal losses have been severe and our thoughts go out to all who suffered so dearly over these past 18 months. As I briefly mentioned last month, our hamfest/swap scene has returned and now I can add: "with a vengeance." Swap attendance at a few recent events appeared to be noticeably higher than pre-Covid levels. We know some of our major vendors have been impacted by the recent shut-downs, and we all hope that we'll see them back on the hamfest circuit vary soon.

Field Day offered the opportunity to again team up either at a single site, or collaborate scores from different locations. In either case, on-the-air activity seemed enthusiastic and close to normal from what this operator could hear. And we are all can be thankful for that. In a few weeks we'll see how our FD scores compared with previous years, but regardless of scores, it seemed like attitudes were great and everyone was genuinely up-beat and having a great time. Some locations were faced with significant rainfall, some with winds and others endured the heat. My local club faced a windstorm which destroyed a tent (but not the CW operator), but returned to the air shortly, losing little time in getting back into the fray. We did get reports of significant rainfall at other FD sites, further adding to the adventures of being prepared for operating in the field.

Our ARRL Board of Directors meets in Mid-July with a rather full agenda.

Under consideration is the addition of a new Standing Committee, specifically to assist and grow our Field Organization and the strong interest in the Amateur Radio Emergency Service, The National Traffic System, Government Liaisons, Public Relations, Technical Advisors, and working with ARRL Affiliated Radio Clubs. This will allow specific focus on these areas, with needed support. It will lessen the load on the Programs and Services Committee, allowing them to concentrate on several specific areas which include the DXCC program, LoTW and contesting.

HAMFESTING

You will note that hamfests have begun to "scrunch" together and several are sharing the same date. These date conflicts are inevitable for many reasons. The most obvious is that there are 52 weekends a year and we have over 80 swaps annually in the Great Lakes Division. Take time out for holidays and the limitations become obvious. This year, of course has several hamfests that have been shifted to dates later in the year.

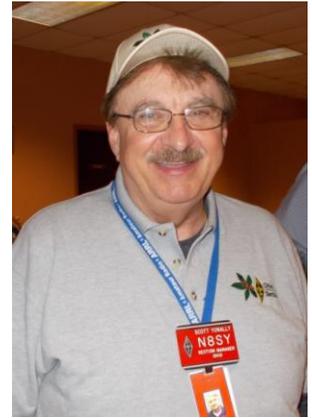
As each ARRL Affiliated radio club is independent, they each have the right to choose their hamfest date. I am sure they all do their part to insure date conflicts are minimized. Each club likewise deserves to have its hamfest sanctioned by ARRL to insure mutual support for these important activities. Your ARRL staff and I do our best to discuss these conflicts with the sponsors in an effort to avoid them, but activities often fall on dates that can't be altered because of long term commitments. The best we can do is encourage careful scheduling on the part of sponsors to insure dates are clear, thus offering the best opportunities for successful hamfests.



From the Great Lakes Division Vice Director



Scott, N8SY
ARRL Great Lakes Division Vice Director



Happy 4th of July and Happy Birthday to America!

I don't know about you, but I'm still recovering from last weekend's Field Day. I took to the road and visited with as many Field Day sites as I could get to. This year I headed south and got to 9 sites. I do apologize if I missed your Field Day operations, maybe next year I can get there. According to the ARRL Field Day Locator we had 88 sites operational within the Division this year, and I'm sure that there were many more but just didn't list themselves.

Things continue to be really busy here with attending club meetings and work on the committees that I'm on. Our Field Service Working Group is meeting regularly with the new Field Services Manager and the CEO to implement improvements within the field organization. We have already started to see changes happening. One of those changes was the CEO holding a town hall forum with all of the Section Managers. We have a lot of work ahead, with more changes and improvements yet to come on the horizon.

The PR Committee has chosen what we feel is a really great nominee for the Philip J. McGan Memorial Silver Antenna Award and sent our recommendation on to the Programs and Services Committee for their approval. Once approved by them, then it's off to the full Board of Directors for final approval at the July meeting. Our PR Committee also put together a lot of information to help all of you promote this year's Field Day. I hope your PIO's took advantage of that material.

Work on the Great Lakes Division Convention has really taken off. We've already had several Zoom planning meetings and are now working to get a really great lineup of forum speakers. We already have several locked in and I know that you definitely won't want to miss hearing from them! The great folks of Bowling Green Kentucky are going to host the 10th Annual Vette City Hamfest / ARRL Great Lakes Division Convention on October 2nd! As that it is only 3 months away, you'll want to make sure that this event gets on your calendars now. We want everyone in the Great Lakes Division to come out and have a blast with us.

Yes, the Joseph Phillips, K8QOE, Newsletter Award is still on. For those of you in Kentucky and Michigan please get your newsletters turned in to your Section Manager and Public Information Coordinator quickly.

The best newsletter from each of the 3 Sections (Michigan, Kentucky and Ohio) will be chosen by their respective Section Leaderships to compete for this very prestigious award.

We want every club in the Great Lakes Division to be able to participate for this award. So, if you are producing a newsletter, be sure to send a copy of it to your Section Manager. He'll take it from there.

That is going to do it from here this month. So, "GOTA" and have FUN!!!



From the ARRL Ohio Section Manager



Tom, WB8LCD
ARRL Ohio Section Manger



For those of you who haven't heard, my three main goals for the Ohio Section are as follows:

- I want every ham in the Ohio Section to get involved and have more FUN with their hobby than they ever thought possible! One of the most interesting things about Ham Radio is how many different ways there are to have FUN. If you're having fun, you'll be fully engaged and it will be contagious.
 - I want every citizen of the State of Ohio to be aware that YES – Amateur Radio still exists and it's as much fun and more exciting than ever. I also want every citizen in the State of Ohio to view Amateur Radio Operators in a positive manner, and as people who engage in their hobby with passion, a sense of service to their community, and as a group with a special bond of friendship and fraternalism.
 - I want to see the hobby grow. New Hams, and new ARRL members. There is strength in numbers!
- All three of these goals work together. Each one supports the other two. I hope that you will support me in this.



With that out of the way, I want to wish you all a Happy Fourth of July! This is the weekend for celebration. I truly believe that the US of A is the greatest nation that has ever existed on this earth. I'm lucky to have been born here and I'm proud to be an American!



Last weekend being Field Day weekend, I did some travelling around the state of Ohio. In fact, over the two days I covered 740 miles. I didn't get to make as many stops as I had hoped for, but some of that was due to traffic and the rest was due to the fact that I spent longer at the stops I did make. And there's a really good reason for that – I got to meet and talk with some really fantastic people! Everyone treated me as if I were a long-lost friend. I came home smiling.

I'm going to post a couple photo's here from my travels, and you can post yours too! There's a special page set up for all the Field Day Pictures.. Here's the link.. <http://arrl-ohio.org/fd-21/> This link is also on the ARRL-OHIO.org main page as well. You can add your own pictures too, just them send them to: webmaster@arrlohio.org



we'll get them added to the gallery. Make sure you let us know where the site was located and which club or group is represented.

Thank you, thank you all, for making this the best hobby in the world!



PCARS VE Test Information & News

Tom, KB8UUZ
PCARS VE Team Liaison



PCARS VE Testing to Resume in August

GOOD NEWS – Starting on August 7th, PCARS will resume VE testing at the PCARS club site in Ravenna. 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 have all been looking forward to getting back to some sort of ‘normal’ and it seems this is the proper time to start up the VE Testing again at PCARS. 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 getting the VE testing going again and look forward to seeing you there – August 7th -10 am – at the PCARS club site in Ravenna.

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.

You MUST register in advance - NO WALK-INS will be accepted. Send an email to KB8UUZ@gmail.com to register.

- You will be required to have, in advance, a Form 605 - properly filled in and signed. Once you register a form 605 will be sent to you via email. You can print it out and fill it in.
- **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.
- 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 will need 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/cores/>

Social Security Numbers are NO LONGER ACCEPTED at Exam Sessions

Amateur candidates who already have an FCC license, whether for amateur radio or in another service, already have an FRN and can use the same number. 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 Application Fees Information

The majority of the FCC's revised Part 97 rules (adopted in December 2020) establishing new application fees that were to become effective on April 19, **but the new amateur radio application fees were not effective on April 19**. The FCC announced on March 19 that the amateur radio application fees, including those associated with Form 605 filings, would not become effective until the "*requisite notice has been provided to Congress, the FCC's information technology systems and internal procedures have been updated, and the Commission publishes notice(s) in the Federal Register announcing the effective date of such rules.*"

The \$35 fee, **when it becomes effective**, would apply to new, modification (upgrade and sequential call sign change), renewal, and vanity call sign applications, as well as applications for a special temporary authority (STA) or a rule waiver. All fees will be per application. Administrative updates, such as a change of mailing, email address, or name, are exempt.

It is expected that such fees will not become effective sometime in 2021. The FCC has stated that amateurs will have advance warning of the actual effective date, because it will publish such date in the *Federal Register*.

ARRL Volunteer Examiner Coordinator (VEC) Manager Maria Somma, AB1FM, said 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 VE team as usual, and pay the \$35 application fee directly to the FCC via the [Fee Filer System](#) or [License Manager System](#).** The new CSCE form now has information about fee payment,

The image contains two logos. On the left is the PCARS logo, which consists of the word "PCARS" in large, bold, yellow letters on a black background. Below it, in smaller white text, is "ARRL Volunteer Examiners: serving the Amateur Radio community". Further down, in yellow text, is "First Saturdays 10:00 am at the club site in Ravenna". At the bottom, in white text, are the months "February, April, June, August, October, December". On the right is the ARRL VEC logo, which is circular with a yellow border. Inside the circle, the words "AMATEUR RADIO" are at the top, "ARRL VEC" is in the center, and "VOLUNTEER EXAMINER" is at the bottom. A diamond-shaped logo with "ARRL" inside is also present.

Field Day 2021

Tony, WA8AR
Field Day Chairman



This year Field Day was back, and was held June 26/27!! Field Day is, without a doubt, the largest operating event for PCARS every year. Traditionally for PCARS, Field Day has also been a great place for all of the PCARS members to see each other and enjoy the participation in all of the Field Day activities.

Although, not as many members as 'usual' - a number of members showed up at our site in Freedom Township and we managed to get six stations on the air and run 4A again. Four HF stations, plus the VHF station and a GOTA station were active.

The weather cooperated - no bad storms or rain, but it was a bit warm. The breeze sure helped.

No big meal was served this year but we did manage to have pizza for the set up and tear down crews. All help was VERY much appreciated. Stations were on the air at 2pm sharp n Saturday and ran the full 24 hours making contacts all over the world.

Results are being tabulated and in the next issue of The RADIOGRAM a complete report will published.

**I can say with 100% certainty -
We did MUCH better than last year.....
(COVID made us miss last year).**



**The following three pages are the PCARS Field Day 2021 photos
that have been received so far.**

Photos are still being submitted to Parky and if you have not sent in your Field Day 2021 photos, please email them to KB8UUZ@gmail.com.



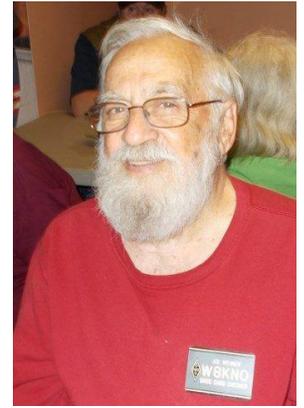




2021 FIELD DAY



Joe, W8KNO



John Glenn's 100th Birthday Celebration

The Cambridge Area Maker Group **KY8C** will celebrate the event by operating from John Glenn's childhood home (John Glenn Museum) in New Concord, OHIO on July 18th from 9 A.M. until 5 P.M. on 14.290, 14.275, 7.275 and 7.240 MHZ. The Voice of America propagation forecast predicts an 86% circuit reliability.

A QSL can be obtained from: Cambridge Area Maker Group
Robert M. Howell, N8WJ
69081 Mount Hermon Rd.
Cambridge, OH 43725-9469



In this historic capsule, Friendship 7, John H. Glenn Jr. became the first American to orbit the Earth. Glenn's flight was the third manned mission of Project Mercury, following two suborbital flights by astronauts in 1961. Glenn's three-orbit mission on February 20, 1962, was a sterling success, as he overcame problems with the automatic control system that would have ended an unmanned flight. But reentry was tense, as a faulty telemetry signal from the spacecraft indicated that the

heat shield might be loose. Mission Control instructed Glenn not to jettison the retrorocket package after firing in order to better hold the heat shield in place.



Glenn reentered successfully and splashed down in the Atlantic 4 hours, 55 minutes and 23 seconds after launch.



NASA transferred Friendship 7 to the Smithsonian Institution in 1963, which has exhibited it in buildings on the National Mall ever since.



Amateur Radio Movie Review



John, KD8IDJ
ARRL Ohio Section
Public Information Coordinator



The fancy highly polished Amateur Radio magazines don't do movie reviews...but here at the Ohio Section...WE DO!!!

Patrolling The Ether

I came across a 1944 pre-WWII black and white thriller last week...*Patrolling The Ether*. In case you weren't around back then ETHER was slang for the AIRWAVES! Today, the word ETHER is used as a knock out medicine to put you to sleep when something bad is about to happen to you! Hopefully you won't need it during this movie...or this review!

The story line is true...to a point... the acting is a little stiff, but, the flick does feature Amateur Radio with appropriate equipment for the day and correct dialogue.

The plot...well, the Federal Communications Commission has just established a new division ...The Radio Intelligence Division known as RID. Amateur Radio operators are being told not to transmit signals outside of the United States so RID can detect signals transmitted by Nazi spies that contain classified information.

The movie opens with a 16 year old fully licensed ham signing off with his friend Carols in Mexico. Now his mother, escorted by an FCC inspector, enters the room who begins explaining to the young ham why this new program is needed and, if he helps monitor, patrol the ether, he can become a RID MAN and track down the spies using Amateur Radio. What ham would not want to do that!



In the scene, the young ham has now become an official RID MAN, wearing a government issued suit, tie and hat, driving a radio-van equipped with highly sensitive listening and direction finding equipment. Just as it seems they are unsuccessful for the evening ...BAMM... there is it ... a transmission from a spy. They track down the source of the signal to a location where they might not have a ghost of chance catching the operator ... but ... you'll have to watch the movie to see the ending!!!!

The film was both praised and criticized ...with the biggest critic being FBI Director J. Edgar Hoover. Some viewers also thought the film was some unneeded propaganda. However, it was the first motion picture that was shown in movie theaters and on television! In fact all three of the then TV networks aired the film at the same time. Every ham needs to see this classic...you can find it on YOUTUBE.

My rating: ★★★★★

Maybe, we could have the Ohio Section officers recreate this flick. Stan Broadway, N8BHL, could be the RID man. He would look authentic in a wide lapel tweed suit and hat! Because I look younger than I am I could take on the demanding role of the 16 year ham operator. I am also camera friendly!

Section Manager Tom Sly and former Section Manager Scott Yonally could play the heavies. They both have that "look"...as if they are up to something! I'm sure there would also be plenty of opportunities for "extras"...as well as Generals and Technicians.

Once I get approval from MGM, the CIA, FBI, FFA, PTA and the FCC you can expect to see PATROLLING THE ETHER – REDUX on a screen near you!!!

Revitalization of ARRL Field Services



From the ARRL

Revitalization of Field Services with New Organization

The Field Services that ARRL HQ provides to its member-volunteers is now in the spotlight with a reorganization and a fresh start to Section Manager and Affiliated Club engagement!

The backbone of ARRL, and the Amateur Radio Service, is the expansive field organization of volunteers. This is especially true of our Board members, our "first among peers," who provide leadership to this vast network of engaged volunteers. During a marathon series of Zoom calls on Wednesday, June 9 with ARRL Section Managers and most ARRL Board members in attendance, the restructuring of the Field Services organization at HQ was announced.

- **Bob Naumann, W5OV, (Former PCARS member) who has a lifetime of experience as a radio amateur from contesting, to public service, to working with a number of well-known industry retailers, is now serving as the Director of Operations following the retirement of Norm Fusaro, W3IZ.** **Bob, W5OV**
- Mike Walters, W8ZY, who has been involved with field volunteers for many years and is currently the Section Emergency Coordinator (SEC) for Connecticut, is now serving as the Field Services Manager.
- Bart Jahnke, W9JJ, who was managing Field Services, remains responsible for Radiosport and is also taking on the role of Regulatory & Advocacy following the retirement of Dan Henderson, N1ND.



The meetings went on to discuss the focus the ARRL Board has placed on Field Services, working to create a new standing committee to oversee its revitalization and growth. Also discussed were the initiatives being undertaken with Section Managers to foster collaboration, share content, undertake projects, and set expectations.

The first project will be a focused census that a dozen Section Managers across the country will be driving with local clubs to understand the disparity between the ever-growing number of licensed hams versus the unchanging number of active hams.

We are very excited to turn the page and begin this new chapter for Field Services, and to continue forward with our digital transformation of ARRL.

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



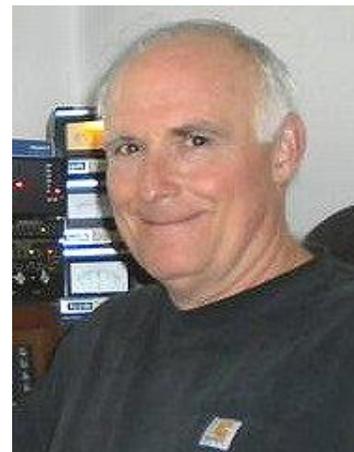
and Blue. Cost for a patch is only \$2.00 each and can be obtained at any PCARS meeting. There are 2 types of stickers available - a 4" x 6" oval and a 3" x 10" bumper sticker. Stickers are \$1 each. Show your pride in PCARS - Wear a patch, use the stickers! See the club Treasurer: **Paul, KE8EGF** or e-mail him at: phyland@neo.rr.com



Proper Etiquette in FT8 Mode

**(((ON ALL)))
BANDS**

Ed Muns, W0YK
From the DX Engineering Blog “On-All Bands”



A Look at Maintaining Proper Etiquette in FT8 Mode

Compared to the classic amateur modes of CW, SSB, and RTTY, WSJT-X modes such as FT8 are very structured with constrained message protocol. They are not suited for rag-chewing, and one would think that operating etiquette would not be an issue. However, there are three things to consider to be a “good” FT8 QSO partner, and all of them are specific to the unique characteristics of FT8.

To start, make sure to install a PC time manager and have it running in the background to ensure your computer clock is in sync with UTC. All QSO partners need to do this because the FT8 software depends on everyone starting transmission and decoding at precisely the same time. The delta should be less than a second, though the software can sometimes cope with larger discrepancies. It is easy to be exact, so download one of several freeware time sync programs. I use Network Time on all my computers. It is small, unobtrusive, and runs unattended in the background. Another favorite is Meinberg Time Server, although it is more complicated to set up.

Next, recognize that FT8 is designed to operate best in split mode—that is, each station transmits on a fixed audio frequency within the 3 kHz passband that is hopefully free of QRM. Since everyone copies all stations transmitting everywhere in the passband, there is no need to operate simplex or zero-beat with your QSO partner. This minimizes QRM and offers the best chance that signals will be copied clearly. In the WSJT-X main window, check the box for ‘Hold Tx Freq’; there is an equivalent setting in other-derivative software like MSHV or DigiRite.

Interestingly, one of the biggest problems in FT8 communication is one QSO partner not logging the apparent contact. The problem typically results from one partner expecting what I call the “superfluous third acknowledgment.” Here is a typical FT8 QSO:

Tx 6: CQ K1XYZ FN37
Tx 1: K1XYZ KN4ABC EM82
Tx 2: KN4ABC K1XYZ +01
Tx 3: K1XYZ KN4ABC R-03
Tx 4: KN4ABC K1XYZ RRR
Tx 5: K1XYZ KN4ABC 73

The QSO is complete with the reception of Tx 4 and should be logged by both parties. However, the automatic message sequencer in WSJT-X triggers the logging function only after Tx 5. The operator can override the sequencer to log the QSO after Tx 4, but must let the automatic sequence play out. After nearly four years of extensive FT8 operation, I have found that many operators expect, and indeed require, that Tx 5 be sent and received before logging the QSO.

This breaks with decades of amateur QSOs in the classic modes where a QSO is considered complete after each station sends and receives:

1. Both call signs, and
2. An exchange, e.g., a signal report, and
3. Acknowledgment of 2

Thus, all conditions are met with FT8 message Tx 4. But due to the WSJT-X automatic message sequencer and several years of precedent, the de facto standard for FT8 QSO completion includes the third superfluous acknowledgment of Tx 5.

Unfortunately, it is probably too late to revert the FT8 QSO definition back to the long-standing and proven amateur QSO protocol that omits Tx 5. Perhaps the saying, "If you can't beat 'em, join 'em," is good advice for this situation. Sending Tx 5 probably maximizes the probability that both QSO partners log the contact, thus exhibiting good QSO etiquette despite the unnecessary Tx 5 that lengthens each QSO. This is more of an issue in FT4/8 contesting where minimum QSO times are desired.

Proponents of the Tx 5 third acknowledgment argue that it is needed to confirm receipt of the Tx 4 RR73 message. The flaw in this assertion is that it applies equally well to the "need" to confirm the Tx 5 message. As you can see, this logic goes on forever (confirming receipt of Tx 5, etc.). For those who want to explore this acknowledgment phenomenon further, Google the "Two General Paradox," which describes the classic computer science problem popularized back in 1972.

A pragmatic solution to this endless acknowledgment dance is the QSO context. In standard practice for amateur contacts, when you do not receive the expected response, you resend your last transmission until you get that response. After a few retries it is customary to abort the QSO and move on. In an FT8 QSO, you can be pretty sure your Tx 4 message was received if your QSO partner does not repeat the Tx 3 message. And it is nearly 100% certain your partner received your Tx 4 message if the next transmission is a CQ or a call to another station. In other words, Tx 5 is not required to assure QSO completion with high confidence.

Happy Birthday PCARS Members

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

KE8MXR	John Lopez
AC8QG	Nicholas Wagner
N2KWW	James Harbert
N8HUC	Karen Andrews
KE8HTL	Mark Woessner
AB8IE	Ken Westover

N8FTP	Larry Cole
W8PT	Chuck Patellis
WB9LBI	Bill Fraedrich
GOBPS	Dick Pascoe
N8QZ	Paul Mitchell
W3CDG	Cory Gibson



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!!

The screenshot shows the PCARS IO Group page on groups.io. At the top, there's a navigation bar with 'Groups', a search bar, and the URL 'https://groups.io/g/PCARS'. Below that, there's a header for the group with the PCARS logo and the text 'PCARS K8BF The Club that puts the FUN in Ham Radio!'. The main content area includes a 'Group Description' section, a 'Group Information' section with details like '59 Members' and '1 Topic, Last Post: Feb 21', and a 'Group Settings' section with various options like 'All subscribers can post to the group' and 'Posts to this group require approval from the moderators'.

Net Night at the Club Site

Amy, N8AMY



June 24 was our first Net Night at the Club Site in a long time!

I was thrilled to be named NCS for the weekly 2 meter net.



I arrived around 7pm and as I approached the door to the club I heard muffled sounds of people.

When I opened the door I was greeted by a group of friends that I had not seen in what seemed like a year! There were people in the radio room, some in the foyer area and more in the main room. It was such a great feeling to experience a “normal” activity that we held monthly in pre-COVID times.



I had fun with the net, and had each of the friends standing around me check-in as they came by my desk. We ended up having around 25 check-in's between Echolink & RF.

New member Gary, WB2RPW checked in from Eatontown, NJ via Echolink which was nice.



The main topic of the traffic was the plans people had for the coming Field Day weekend!

As soon as the net was over, Tom, WB8LCD had pizzas delivered and President Nick, AC8QG brought a giant box of ice cream treats.



We talked and hung out together for a while longer, and met two new members who were there for the first time, Wren & Lily, AE8ET.

Net night had a special feeling because we felt grateful to be together again as we move past the pandemic isolation with hope for the future.



PCARS
www.portcars.org



Swap-N-Shop

FOR SALE: Yaesu FTdx-9000MP Top of the line HF & 6m rig - Dual RX, Dual Meters, 400 Watts, , 3 roofing filters. Pristine condition, includes dual speaker/power supply, manual, original boxes - over \$10,600 new - sell for \$3,900 **Yaesu Quadra Amplifier VL-1000** - HF-6 - 1000 watts - works great - includes all cables, manual, original boxes - \$1,800 **Yaesu MD-200 Microphone** - perfect for the Yaesu HF radio - includes original box - \$150 **Heil GM-5 microphone** - Includes Yaesu adapter cable and Heil Desk Stand - \$95
Must sell - Downsizing my station - Low use on all the equipment, always kept clean, covered and neat.



Contact: Jeff, K3EMB email: jwinters510@gmail.com or call 216-233-6551 [09/02/21]

WANTED: Transceiver capable of 6 meters SSB - Looking for a radio that can operate on 6 meter SSB, ideally over 10 watts. I'm looking for something less than \$300, but could go higher depending on the radio.

Contact: David, KE8QEP email: dwaugh@kent.edu call or text: 330-603-8640 [08/02/21]

FOR SALE: Icom SM6 Microphone - 8 Pin round connection. Very clean IC-SM6 electret condenser desk microphone with windscreen. Lock switch works smoothly and positively. Used with any ICOM radio with the round 8-pin mic connector. Nice small footprint desk microphone. Asking \$75.00. **Cushcraft 6M Yagi A505S (?)**. *Don't know if it is actually a Cushcraft*, my dad was very handy at home brewing radio stuff. Five elements, 12 foot boom. Asking \$100. Selling these items for my father, W8JFQ (SK) was a member of PCARS. Paypal and Venmo accepted of course cash is always accepted. (prefer Venmo or cash, no fees). Can and will provide pictures if asked for.

Contact: Bob, W8RID email: davet102@roadrunner.com [08/02/21]

FOR SALE - FT-7800R Dual Band Mobile, TX 50W on 2M, 40W on 70CM, Receive from 108 to 520 MHz (cell blocked), 1055 Memory channels, Used as base radio, never mobile. Includes RT Systems programming software and cable. All original boxes, power cord, mic, etc. Like new, \$250 **Comet DS-150S Discone Base Wideband scanner/receive/TX antenna**. Receive 25-1300 MHz, TX 6M/2M/440/900/1200 MHz. Gain-Unity/2/4dB, UHF connector. All Stainless, excellent condition \$60.00

Contact: John, W8JJW by phone at: 330-842-3619 [07/02/21]

For Sale or Want Ad policy reminder: This is a PCARS *members only benefit*. Please don't ask to list items for a friend, relative or SK estate unless they are/were a member of PCARS. Requests come in from all over the USA (and beyond) to list items for sale or wanted items and we just cannot dedicate that much space to non-members. Listings are good for 3 months unless canceled or changed earlier. The date listed after the contact information tells you when the ad expires - example: [08/02/21] indicates the ad will run until August 2, 2021.

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Learn about your VOM/DVM Workshop

Rick, K8CAV

The Volt-Ohm-Ammeter aka VOM, or Digital Volt Ohm Ammeter aka DVM is without question the most versatile and often used piece of test equipment in the ham radio operator's tool box. The ability to measure voltage, current, and resistance is more times than not, all that's needed for troubleshooting electrical and electronic problems that crop up. If you're new to ham radio or if you've never had opportunity to use one of these instruments, it can be a bit daunting. Also, when making measurements in a circuit you may not see results you might have expected. Most important, you want to make sure that when using a VOM or DVM that you're doing it in a manner that's safe for you and won't destroy your instrument.



To help you learn the ins and outs of using your VOM-DVM safely and effectively, PCARS is conducting a workshop on Saturday July 24th from 9:00 AM to 12:00 PM at the PCARS club site. We'll start out with a presentation that covers these instruments and their

features, along with advantages and disadvantages for a VOM vs. a DVM. We'll discuss how characteristics of the instrument might affect the accuracy of a circuit being measured. Safety for both you and your instrument will be talked about to keep you and your instrument in good health. We'll then do some hands-on activities by rotating through several stations where you'll be asked to make one or more measurements, and possibly explain some of the results you get. There will also be a calibration station with several calibrated voltages and resistances. VOMs and DVMs will be provided at each station but feel free to bring your own. I suggest you bring the User Manual for your meter if you have it.



Although registration isn't necessary I would like to get an idea of how many are attending so if you could drop me a line at k8cav.coms@gmail.com to let me know you're attending I would appreciate it.

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 - Paul, KE8EGF**. Paul 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 Paul for all of the details: Treasurer@portcars.org





From the ARRL

3Y0J Bouvet Island DXpedition Team Hasn't Given Up

The [Daily DX](#) has reported that the [3Y0J](#) DXpedition team is still hoping to have a go at the island in 2023. The DXpedition team had planned to travel to Bouvet via the RV *Braveheart*, owned by Nigel Jolly, K6NRJ.



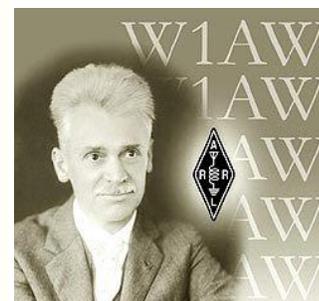
"Since the cancellation of 3Y0J, we have been working closely with Nigel Jolly to form a new plan, with a new owner of *Braveheart* and a revised payment plan that enables Nigel Jolly to continue managing *Braveheart* and will keep it available for DXpeditions for years to come," said the announcement from DXpedition co-leader Paul Ewing, N6PSE.

"We are working out the details of this plan and hope to have some very positive news very soon. We have not given up!" The Intrepid-DX Group [announced](#) earlier this month that it has canceled its long-anticipated DXpedition to Bouvet. Jolly told the DXpedition that the *Braveheart* was being sold and he was canceling its contract for the 3Y0J voyage.

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W1AW/KL7 to Serve as ARRL Headquarters Station for IARU Event

W1AW/KL7 will be in Alaska to serve as the ARRL Headquarters (HQ) station for the International Amateur Radio Union (IARU) [HF World Championship](#) competition on July 10 - 11. To provide radio amateurs an opportunity to work W1AW, as well as the state of Alaska, use of W1AW/KL7 has been authorized from 0000 UTC on July 8 to 2359 UTC on July 13.



NU1AW, the IARU Headquarters station, will be active as NU1AW/5, in a multioperator distributed operation from the ARRL West Gulf Division (Texas and Oklahoma). NU1AW/5 will be on CW and SSB, 1.8 - 28 MHz. W1AW/KL7 and NU1AW will be the only US HQ stations active.

IARU President Tim Ellam, VE6SH, will be giving out the AC (Administrative Council) multiplier, along with new IARU Secretary Joel Harrison, W5ZN. [Here](#) is a growing list of IARU HQ stations, courtesy of Bob, N6TV, and Joe, OZ0J. -- *Thanks to The Daily DX and The ARRL Contest Update*

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13 Colonies Special Event Set for July 1 - 7

The 13th running of the popular [13 Colonies Special Event](#) will take place July 1 - 7. A series of 1 x 1 call signs (K2A - K2M) will represent each of the original colonies in North America. The event begins at 1300 UTC on July 1 and concludes at 0400 UTC on July 7.



This year, some French stations will be joining, in recognition of the French Navy's importance in the 1700s as part of the France-Britain global competition. TM13COL will be a bonus station, as will GB13COL and WM3PEN in Philadelphia, Pennsylvania, named after land-grant grantee William Penn, the colony's founder. Of course, Philadelphia is where the US founding fathers met.

Last year, the Special Event's 13 stations made 202,000 contacts. Each QSL card will be different, including the three bonus stations, each bearing a representative image of a ship.

Announcements

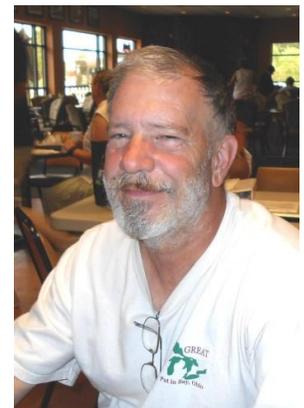
- Paul Rogers and Allen Chance, W2BUZ, have co-written -- and Rogers has produced a [video](#) for -- the song "Back on the Air" as a tribute to amateur radio operators. "I'm not a ham myself, although I did build a Heathkit when I was a kid," Rogers told ARRL.
- The Radio Amateurs of Canada Contests and Awards Committee (RAC-CAC) has announced the implementation of a new [contest log submission system](#). It's designed to allow contesters to directly submit a Cabrillo-based log file as an official contest entry form for both the [RAC Canada Day Contest](#) and the [RAC Canada Winter Contest](#).
- AMSAT has announced the candidates for its 2021 Board of Directors Election. They are Joseph Armbruster, KJ4JIO; Robert Bankston, KE4AL; Jerry Buxton, N0JY, and Zach Metzinger, N0ZGO. Voting instructions will be emailed by July 15, 2021 to all members in good standing as of July 1, 2021. Four Board seats are up for election this year, so all four candidates will be seated.
- The virtual [HAM RADIO World](#) opens on Friday, June 25, at 3 PM CEST. The program offers 3 days of programs of presentations plus a virtual 2D fair world. An [explanatory video](#) will help to get you started.



ARRL—The national association for AMATEUR RADIO™
 225 Main Street
 Newington, Connecticut 06111 -1494 USA
 860-594-0200
www.arrl.org

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.

July	
1	K8YLK
8	N8AMY
15	N8QE
22	K8CAV
29	KD8WCK

August	
5	K8YLK
12	N8QE
18	N8AMY
26	KA8TOA

September	
2	WB8LCD
9	KD8WCK
16	N8AMY
23	KE8BWA
30	KA8TOA

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



Hamfest Calendar

HAMFESTING: This continues to challenge all of us as many clubs are making their best efforts to return their hamfests to the calendar. Several swaps were postponed or cancelled, but some clubs are adjusting their timetables and setting their hamfests up with different configurations and planning them for dates later in the season.



For the latest detail on regional hamfests, check the ARRL web page at: <http://www.arrl.org/hamfests-and-conventions-calendar> .

Please note that all are subject to change, so stay current by checking the sponsoring club's web page before making your travel arrangements.

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07/10/2021 - MANSFIELD Mid-Summer Trunkfest - Location: Richland County Fairgrounds - 750 N. Home Road - MANSFIELD, OH 44901 - Website: <http://WWW.IARC.CLUB> - Sponsor: Intercity Amateur Radio Club - Public Contact: Danny Bailey , W8DLB - 70 Euclid Street Shiloh, OH 44878 - Phone: 419-541-8557 - Email: W8DLB113@GMAIL.COM - Learn More <http://www.arrl.org/hamfests/mansfield-mid-summer-trunkfest>

07/17/2021 - NOARSFEST Location: Elyria, OH Sponsor: Northern Ohio Amateur Radio Society Website: <http://noars.net> . Learn More <http://www.arrl.org/hamfests/noarsfest-8>

08/07/2021 - 2021 Columbus Hamfest - Location: Grove City, OH Sponsor: Aladdin Shrine Audio Unit Website: <http://columbushamfest.com> .

09/12/2021 - Findlay Hamfest - Location: Findlay, OH - Sponsor: Findlay Radio Club - Website: <http://www.findlayradioclub.org/hamfest> - Learn More <http://www.arrl.org/hamfests/findlay-hamfest-8>

09/26/2021 - Cleveland Hamfest - Location: Cuyahoga County Fairgrounds - 164 Eastland Road - Berea, OH 44017 - Website: <http://www.hac.org> - Public Contact: Mathew Nickoson, KC8NZJ - PO BOX 201173 Shaker Heights, OH 44120 - Phone: 8002533378 (800-CLE-FEST) - Email: kc8nzj@hac.org Learn More <http://www.arrl.org/hamfests/cleveland-hamfest-1>

10/2/2021 - 10th Annual Vette City Hamfest, ARRL Great Lakes Division Convention
Location: Western Kentucky University Knicely Conference Center - 2355 Nashville Rd. - Bowling Green , KY 42101 - Website: <https://ky4bg.com> - Sponsor: Kentucky Colonels Amateur Radio Club -
Talk-In: 147.330 P.L. 107.2 - Contact: Frank Armstrong , KI4HEJ - 1622 Flanigan Ct. #4 Bowling Green, KY 42104 - Phone: 270-991-9768 - Email: frankarmstrong@insightbb.com

10/31/2021 - Massillon Hamfest - Location: Green, OH - Sponsor: Massillon Amateur Radio Club -
Website: <http://w8np.or> Learn More <http://www.arrl.org/hamfests/massillon-ohio-hamfest>

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



We're Moving to Hotel Hope - 2022

Tim, K3LR

Attention Contesters and DXers! Contest-related activities that have previously taken place at the Crowne Plaza Hotel during the Dayton Hamvention® are moving to the Hope Hotel beginning in 2022.

In May 2022, official Contesting activities will be at the Hope Hotel, including four nights of the Contest Super Suite, Contest University, The Top Band Dinner, The Contest Dinner and the KC DX Club CW copying competition. There may be additional related events as well.



The Hope Hotel is an excellent facility, well suited for Contesters and DXers. There is plenty of parking and it is located closer to the Hamvention than the downtown Dayton hotels. The Hope Hotel is adjacent to the Wright-Patterson Air Force Base. Guests do not go through the security gate.

We have spent almost two years working on this project and we believe you will enjoy the change of venue.



Room reservations will be taken by the Hope Hotel starting on Tuesday June 8, 2021 at 9 AM EDT. Do not call them before that time. You can get room reservations by phone only. If you try to book on line you will see that there are no rooms for those dates. Every room in the Hope Hotel has been blocked for Contesters and DXers for Hamvention week. Starting Tuesday June 8, 2021 at 9 AM EDT, you can call 937-879-2696 and ask for a reservation in the Contest University 2022 room block. There is no minimum night commitment. The room rate is \$143 per night plus tax and that includes a hot buffet breakfast each day of your stay. The room rate is the same for a single queen, two queens or a single king with a pull out.



If you have 2022 reservations at the Crowne Plaza (now the Radisson Hotel Dayton) you can contact the Radisson at (937) 224-0800 to cancel and obtain any refunds. The Radisson is aware of the venue change for our activities.

We look forward to seeing you on Wednesday night, May 18, 2022, for the first night of the 2022 Contest Super Suite at the Hope Hotel. <https://www.hopehotel.com/>



PCARS K8BF

The Club that puts the FUN in Ham Radio!



Charlie the Tuner's HF High-Lites

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



Greetings DXers:

We're now into that time of the season when we switch back and forth between very hot and humid to thunderstorms, And we get a few cooler days thrown in just to tease us. However, it is a time when we can get some bigger, outdoor projects done. At my QTH, we still have to complete work on my Tower 1 and we've really just begun work on Tower 2. Things move rather slowly but it is what it is.

The bands have been somewhat erratic. At times they have been quiet and then there are signals all over the bands. There have been openings on 15, 10, and 6 meters. Even with the fits and starts, it shows that Cycle 25 is waking up and in a short while the bands will be hopping. This really would be a good time to make sure that everything in you shack is operational and that there will be no surprises when that Pacific island that you have been looking for is on the air. And if you think you need a better antenna, then go for it. Maybe that dipole has been up WAY TO LONG and it needs to be replaced. Or maybe you need to add some other wire antennas to fill out you antenna farm. Whatever the need, take the time to do it so that you can enjoy the bands the way they are meant to be enjoyed.

QRP operators know this. They spend a lot of time developing their antenna systems because they know that it's the antenna system that will make the difference. They know that they need the best chance they can get to make their 5 watts heard. And I said "antenna system" which means don't neglect the feed line(s).

Nuff said!

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, K8YSE, W8GEX & 60m DX News, WB6RSE, DL1SBF, DL7UXG & The DX News Letter, DXNews.com, DX-World.Net, F6AJA & Les Nouvelles DX, F8FKJ, I1JQJ/IK1ADH & 425 DX News, S58MU, 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.

DXCC'S MOST WANTED (ClubLog). The "DXCC Most Wanted" entities list has been updated on ClubLog as of June 11th. The list contains 340 entities. The following are the top 15 entities:

- | | | |
|----------------------------|---------------------------|--|
| 1. P5 DPRK (North Korea) | 2. 3Y/B Bouvet Island | 3. FT5/W Crozet Island |
| 4. BS7H Scarborough Reef | 5. CE0X San Felix Islands | 6. BV9P Pratas Island |
| 7. KH7K Kure Island | 8. KH3 Johnston Island | 9. 3Y/P Peter 1 Island |
| 10. FT5/X Kerguelen Island | 11. FT/G Glorioso Island | 12. VK0M Macquarie Island |
| 13. YV0 Aves Island | 14. KH4 Midway Island | 15. ZS8 Prince Edward & Marion Islands |

3Y0J BOUVET ISLAND DXPEDITION NEWS (Update). If you missed the big news, it was announced that the 2023 Intrepid Bouvet Island DXpedition has been canceled due to their planned ship the famous "RV Braveheart" which has provided outstanding safety and service to many DXpeditions has been sold. Plans are now in the works to somehow arrange Nigel Jolly to continue managing the Braveheart which would keep it available for DXpeditions. We hope to have good news soon.

PVRC ONLINE PRESENTATION (What to Expect During the Rising Years of Solar Cycle 25?). From a Potomac Valley Radio Club (PVRC) online meeting, Frank Donovan, W3LPL, gives a fascinating review of propagation modes, metrics and characteristics, as well as what to expect while we are on the upswing (rising) years of solar cycle 25. The presentation is about 1:45 long and is available at: <https://www.youtube.com/watch?v=Vybk5RB6zes>
You may also directly view a .PDF file of the W3LPL presentation slides at: <https://pvrc.org/W3LPL/HFPropagationTheRiseOfSolarCycle25.pdf>

July...

5Z, KENYA. Sila, AK0SK, is once again active as 5Z4/AK0SK from Nairobi. The length of his stay is unknown. Activity has been on 40-10 meters using mostly FT8. QSL via his home callsign, LoTW or ClubLog.

EA6, BALEARIC ISLANDS. Andy, DK5ON, will once again be active as EA6/DK5ON from Mallorca Island (EU-004, ARLHS BAL-010 Cap de Pera Light, WLOTA 1902) between July 12-20th. Activity will be holiday style with some possible EAFF and SOTA/GMA activities. Operations will be on 40-6 meters using CW, SSB and the Digital modes (JT65, RTTY, PSK31, FT4, FT8). He will be using an Elecraft KX3 (QRP 5 watts) and ICOM IC-705 into dipole antenna. QSL via DK5ON, direct, by the Bureau, ClubLog's OQRS or LoTW.

J2, DJIBOUTI. Jeje, F8FKJ, will be active as J20EE from Djibouti City (WW Loc. LK11NN) during June-July. He informs OPDX that his activity will be on 20/18 meters using CW, SSB and FT8. Jeje states that he will "take a very small station that I can put it in my backpack." Equipment is a FT450d w/100w into antennas loop 21m (he is looking for a better antenna and more band). QSL via eQSL or LoTW (waiting for a certificate). Watch QRZ.com for updates.

KL7, ALASKA (W1AW Op). A team of operators from the North Pole Contest Group (KL7RA) will activate W1AW/KL7 from Alaska between July 9-13th. Wigi, KL0R, Station Manager of the North Pole Contest Group, reports that are currently planning to have four station locations in Alaska, including KL7RA in Kenai, KL2R in Fairbanks/Two Rivers, KL7AA in Anchorage, and one more station, most likely in Homer. Activity will be on various HF bands (as many bands and modes as possible, plus EME), including activity in the IARU HF Championship (July 10-11th) as HQ Station. QSL via W1AW, LoTW or ClubLog.

OE60, AUSTRIA (Special Event). Alex, OE3DMA, has just received permission from the authorities to use the special callsign OE60ANT between July 1st and December 31st 2021. Activity is to celebrate the 60th anniversary of the Antarctic Treaty System (ATS). The WAP special reference for OE60ANT has been issued as WAP-315.

VP2V, BRITISH VIRGIN ISLANDS. Frank, K3TRM, active as VP2V/K3TRM from Tortola, British Virgin Islands (NA-023), July 4-18th. Activity on the 40-6 meters using SSB, the Digital modes (RTTY & FT8), and the Satellite. Real-time logs will be available on ClubLog during the operation. Equipment will be an IC-706MKIIG w/400w amp into a G5RV, M2 6M5X and Arrow antenna. QSL via K3TRM, direct with SASE or 2 USDs, LoTW and ClubLog's OQRS.

August...

FJ, ST. BARTHELEMY. Phil, K2LIO, is expected to be active as K2LIO/FJ from Saint Barthelemy (NA-146) until August 5th. Phil states to look for him on 40/20/15 meters. He uses a Xeigu G90 with 20 watts into a MFJ end-fed wire. QSL via his home callsign.

N7, UNITED STATES (Special Event). Look for Special Event Station (SES) N7C to be active between August 10-14th. Activity is the 17th annual special event station's celebration of the "Navajo Code Talkers", normally from Window Rock, AZ. However, because of the continued closure of the Navajo Nation due to the COVID-19 outbreak, the SES will be on the air from the home stations of Ray-W7USA, Bob-K7BHM, John-W5PDW, and Herb-N7HG (who's father was a Code Talker). QSL to N7HG or N7C at the QRZ.com address.

VP9, BERMUDA. Henning, OZ2I, will be active as VP9EE from Bermuda (NA-005) between August 11-16th. Activity will be only CW. He will participate in the Work All European DX Contest (August 14-15th). QSL via OZ2I.

IOTA News...

AS-014. A team of members from the Royal Omani Amateur Radio Society will be active as A43MI from **Masirah Island, Oman**, between July 22-27th. The team will also be active as A44M during the RSGB IOTA Contest (July 24-25th). QSL both callsigns via ClubLog's OQRS, LoTW or eQSL.

EU-042. Mike, DG5LAC, active as DG5LAC/P from **Hooge Island** (DLFF-0013 Wadden Sea) between July 23-27th as Single-Op/SSB-Mode/12-Hrs/High-Power. Activity will be on SSB and FT8/FT4. He will also be in the RSGB IOTA Contest (July 24-25th). QSL via DG5LAC, direct, by the Bureau, LoTW, eQSL or ClubLog's OQRS.

EU-050. Operators Luca/IK5AEQ and Fraco/IZ5IUY active as IL7/homecall from San Domino Isle until July 8th. Activity will be on various HF bands. QSL via their home callsign or LoTW.

EU-055. Operators Trond/LA1ZTA, John/LB2GI, Odd Arne/LB3AI, Jan Ove/LA6GKA, Ivar/LA6ZP, Morten/LA7XIA and Knut/LA9RY, members of the Haugaland group of NRRL, will be active as LA4C, from **Feoy Island** during the RSGB IOTA Contest (July 24-25th) as a Multi-2 entry. QSL via LA4C, direct, by the Bureau or LoTW.

EU-057. Operators Jef/DD2CW, Dirk/ON3UN, Ief/ON6KX and Roger/ON7TQ active as DD2CW from **Rügen Island** in the Mecklenburg-Vorpommern State Group between July 23-29th. Activity will include the RSGB IOTA Contest (July 24-25th) on SSB, but also look for operations on all bands on CW/SSB outside of the contest. QSL via the Bureau.

EU-057. Operators Hannees/DL9SCO and Ron/ON1DX will be active as DA2W from **Rügen Island** in the Mecklenburg-Vorpommern State Group between July 23-29th. Activity will include the RSGB IOTA Contest (July 24-25th) on CW, but also look for operations on all bands on CW/SSB outside of the contest. Listen for QSL info.

EU-067. Ops Pierre-Marie/F4FCE, Rodolphe/F4FMU, Fab/F4GYM, Bruno/F5AGB & Raymond/F6DVH active as TM1N from **Noirmoutiers Is.** during the RSGB IOTA Contest July 24-25. QSL via F4GYM, by Bureau, direct or eQSL.

EU-088. Fred, ON6QR, will be active as OZ/ON6QR from **Laeso Island** in the Kattegat IOTA Group, Denmark, during the RSGB IOTA Contest (July 24-25th) as a Single-Op/DXpedition/24-Hrs entry. QSL via ON6QR.

EU-090. Operators Mato/9A3SM, Ian/S55O, Silvo/S50X, Hubert/S53Z and Milan/S58MU will be active as 9A/homecall (except Mato) from **Palagruza Archipelago** (IOCA CI-084, WLOTA LH-0057 & CLH-100, ARLHS CRO-012, WW Loc. JN82DJ) between July 17-31st. Activity will be on 80-10 meters using CW and SSB. The team will also be on during the RSGB IOTA Contest (July 24-25th) using the special callsign 9A21A. QSL via S58MU, direct or by the Bureau. A special Palagruza Island "9A212A" Award is available. See QRZ.com for details.

EU-111. (Update) Members of the Cray Valley Radio Society (G3RCV) will be active as GM3RCV from **Ceann Ear in the Monach Islands** between July 22-27th. Their plan is to be in the RSGB IOTA Contest (July 24-25th) as a Multi-2/Low-Power entry signing MM8C. QSL via LoTW and ClubLog's OQRS. The group plans to be active on the HF and VHF bands using CW, SSB and possibly the Digital modes. Operators mentioned are Pat/EI5IX, Chris/G0FDZ, Nobby/G0VJG, Tony/G2NF and Jamie/M0SDV. QSL both callsigns via Clublog's OQRS.

EU-121. Operators Denis/EI4KH and Gerard/EI5KF will be active as EJ1E from **Bere Island** during the RSGB IOTA Contest (July 24-25th) as a Mixed-Mode/DXpedition entry. QSL via EI5KF.

EU-129. Operators Norbert/DL2RNS, Rainer/DL2RVL, Heiko/DL1RTL, Norbert/ DL2RNS, Georg/DL4SVA, Ron/DG2RON and Olaf/DL7JOM will be active as DK1A from **Usedom Island** during the RSGB IOTA Contest (July 24-25th) as Multi-2 entry. QSL via DK1A or ClubLog.

EU-146. Dirk, DL1KVN, will be active as PA/DL1KVN/P from **Tiengemeten Island** during the RSGB IOTA Contest (July 24-25th) as a Single-Op/Island-DXpedition/Mixed-Mode/Unassisted entry. QSL via ClubLog.

OC-021. Pri, YB0ECT, will be active from **Java Island** during the RSGB IOTA Contest (July 24-25th) as a Single-Op/Single-Band (20m)/ High-Power entry. QSL via W2FB only!

That's it for now. Obviously a lot of IOTA activity due to the RSGB IOTA Contest so keep your rigs warmed up. Get on the air and LISTEN. You will find DX to work. **73 for now.**

DX & Contest Special Interest Group

Chuck, W8PT
DX & Contest SIG Coordinator



First of all, I want to thank those who either came to the club site or signed in on ZOOM to attend our recent meeting. We even had a couple of members who came for the Antenna SIG and found out they were a week late and still stayed for the DX SIG. I'm hoping they weren't too disappointed. They were certainly welcome and hope they join us for our next meeting.

We briefly reviewed a few contests that are coming up in July. The North American QSO Party takes place at 1800 UTC July 17 to 0600 UTC July 18. Those of you who enjoy RTTY operation should prepare to operate that weekend.



However, during the same weekend, the CQ World Wide VHF Contest will be held. The times are 1800 UTC on July 17 to 2100 UTC July 18. The bands are 6 & 2 meters. There are several categories of competition including a category called "Hilltopper". This is for Single-Op QRP portable operation limited to 6 continuous hours.

Finally, the only State QSO Party in July... Missouri. It takes place the weekend of July 31 - Aug 1. The operational time is split to allow for precious sleep. The times are 1400 UTC, July 31 to 0440

UTC Aug 1 and then 1400 UTC -2000 UTC on Aug 1. More and more State QSO Parties are doing this and it's really appreciated.

AS I have mentioned before, if you want to participate, please read the rules so you don't end up doing a lot of operating only to get a check log as your reward.



We also discussed the new antenna project for the club site. PCARS is now the proud

owner of an 11 element OptiBeam tri-bander that will be mounted on a 40 ft Rohn 25 tower. So we will have 3 el on 20; 3 el on 15; and 5 el on 10. Above the tri-bander we will have a 6 meter antenna so that we can take advantage of some of the VHF contests. We will, of course, still have the 40m and 80m dipoles. This upgrade should help us greatly in our contesting endeavors.

have the new antenna system up and running.

That's it for now. Hope to see many of you at the club site once we



Portable Ops Special Interest Group

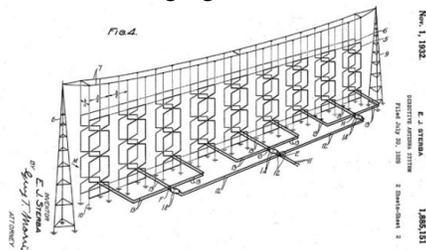
John, KD8MQ
Portable Ops SIG Coordinator



We held our first meeting in June of the Portable Operation Special Interest Group. It was a good start, and well attended both in person, and via Zoom. Never having done a SIG before, I wasn't sure what to expect, but we had a few folks show up with their go-boxes, and we talked about some different things pertaining to Portable Ops.

There was some room for improvement on my end as I'm still getting used to leading a meeting on the Zoom platform. Sorry I did not get a roster of all who checked in, but I'll do better this month.

As I write this, we are at the beginning of the grand-daddy of all portable operations; Field Day weekend. I'll be in Mahoning County this year. The plan is to run either a G5RV, or a 40-10 End Fed Half Wave (EFHW) for my station. A friend is stringing out an EFHW for 160 for his station, just to see how well it works.



A few years back, I remember hearing of a group in the Hillsboro area who erected a Sterba Curtain Array for Field Day. That would have been something to see. Apparently, they do something similar each year.

So the next session of the Portable operation SIG will be on the 2nd Tuesday in July (July 13th). This month, we are meeting at the club site, as well as on Zoom. Let's talk about our favorite antenna for portable operations. I've seen and heard of some unusual antennas over the years. Some are built for stealth; some for performance. Some have unusual names like Vert-Zilla for instance.

There will also be ample time for Q & A, and filling us in on your latest portable operations. So I hope you can make it and add your input. We meet at 7 PM at the club site (705 Oakwood St, Ravenna).

Digital Special Interest Group

Rick, K8CAV
Digital SIG Coordinator



The PCARS Digital Special Interest Group meeting will be held on Tuesday July 6th at 7:00 PM at the club site in Ravenna. We will also hold it on simultaneously on Zoom for those who would like to participate in that way. The Zoom link will be published by QST email prior to the meeting.

This month we'll be reviewing digital operations during Field Day. If you operated or observed digitally during Field Day, we would enjoy having you share your experiences.

As always, we'll make time to answer any questions or help with any issues or problems you may be having concerning digital communications. I hope to see you there!



The Russian Woodpecker



Kristina Panos
Hack-A-Day Contributor



**THE RUSSIAN
WOODPECKER:
OFFICIAL BIRD OF
THE COLD WAR
NESTS IN GIANT ANTENNA**

On July 4th, 1976, as Americans celebrated the country's bicentennial with beer and bottle rockets, a strong signal began disrupting shortwave, maritime, aeronautical, and telecommunications signals all over the world. The signal was a rapid 10 Hz tapping that sounded like a woodpecker or a helicopter thup-thupping on the roof. It had a wide bandwidth of 40 kHz and sometimes exceeded 10 MW.

This was during the Cold War, and plenty of people rushed to the conclusion that it was some sort of Soviet mind control scheme or weather control experiment. But amateur radio operators traced the mysterious signal to an over-the-horizon radar antenna near Chernobyl, Ukraine (then part of the USSR) and they named it the Russian Woodpecker. Here's a clip of the sound. <https://www.youtube.com/watch?v=aOMVdOc9UeE>

The frequency-hopping Woodpecker signal was so strong that it made communication impossible on certain channels and could even be heard across telephone lines when conditions were right. Several countries filed official complaints with the USSR through the UN, but there was no stopping the Russian Woodpecker. Russia wouldn't even own up to the signal's existence, which has since been traced to an immense antenna structure (<https://www.atlasobscura.com/articles/the-top-secret-military-base-hidden-in-chnobyls-irradiated-forest>) that is nearly half a mile long and at 490 feet, stands slightly taller than the Great Pyramid at Giza.

This imposing steel structure stands within the irradiated forest near Pripyat, an idyllic town founded in 1970 to house the Chernobyl nuclear plant workers. Pictured above is the transmitter, also known as Duga-1, Chernobyl-2, or Duga-3 depending on who you ask. Located 30 miles northeast of Chernobyl, on old Soviet maps the area is simply labeled Boy Scout Camp. Today, it's all within the Chernobyl Exclusion Zone (https://en.wikipedia.org/wiki/Chernobyl_Exclusion_Zone).

It was such a secret that the government denied it's existence, yet was being heard all over the world. What was this mammoth installation used for?

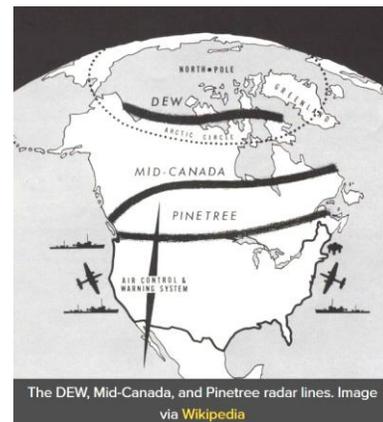
DISTANT EARLY WARNING

The Duga radar was one of two transmitter/receiver pairs built (https://en.wikipedia.org/wiki/Duga_radar) in response to the Distant Early Warning Line (DEW Line), a smattering of antennas that were built above the Arctic Circle in a joint effort between the US and Canada. Like any over-the-horizon radar (https://en.wikipedia.org/wiki/Over-the-horizon_radar), the theory behind Russia's system was that Moscow would have about 25 minutes to respond to ICBMs in kind, rather than having a mere 10 minutes or so in which to duck and cover and kiss the world goodbye. To get a better idea of the scale of this thing, check out Tom Scott's brief tour in the video embedded below.

The DEW, Mid-Canada, and Pinetree radar lines. Image via Wikipedia

Over-the-horizon radar relies on a similar phenomenon that delivers such great range for amateur radio — the signals bounce off the ionosphere and are thus able to overcome the curvature of the Earth, which allows it to detect launches much earlier than standard ground radar can.

In the 2015 documentary *The Russian Woodpecker* (<https://www.youtube.com/watch?v=B556UXqyPcI>), a film crew led by an artist from Kiev attempts to uncover the mysteries of the antenna. He believes that the nuclear incident at Chernobyl was orchestrated to divert attention away from the structure, which was due for an upcoming inspection that it was never going to pass.



According to the documentary, the Duga antenna cost twice as much as the Chernobyl plant itself - around 7 billion Rubles. Putting this cost in historical context is tricky. Using the Treasury Reporting Rates of Exchange as of June 30, 1976 we find the exchange rate at the time was 0.7550 Rubles to Dollars. That places the 1976 cost at about \$9.27 billion. Inflation adjusted that's \$43.16 billion in 2021 value - a mind-boggling sum that makes us question the documentary's cost assessment (and the accuracy of our own conversion process).



Some sources say the radar system never worked. Other sources claim that it did, and that they were able to detect every single Shuttle launch with it. And when the Woodpecker was reported to be interfering with Russian SOS signals, they altered the frequency. But after they did that, it stopped working because of interference from Aurora borealis.

YOU TUBE VIDEO <https://youtu.be/xbi6eoh63ZQ>

MAKING MOSCOW MUFFLERS

Eventually, companies and individuals built blanker circuitry to tune out the incessant tapping. Conventional interference blanker circuits work by looking for short pulse duration with fast rise time, and generate a signal to shut off a gate in the signal path. But these would be useless to drown out the Woodpecker, because they don't work on lower-amplitude pulses.

The Moscow Muffler WB-1. Image via QRZ Forums

The problem with blanking the Woodpecker's signal was that it had a large bandwidth and inconsistent pulses. Ionospheric reflection would stretch the pulses and sometimes create echoes, turning it into a game of whack-a-mole. To make matters worse, they often looked like regular signals, making it even harder to isolate the Woodpecker from whatever the desired signal was.



The Datong SRB2 Woodpecker Blanker. Image via Radioworld

One popular device was the AEA Moscow Muffler, which worked by generating an internal signal of 10 or

16 Hz to blank out the Woodpecker. But if the ionosphere was stretching the pulses, the blanker's pulse width had to be increased to compensate, which often meant losing the desired signal in the shuffle.

Another device, the Datong SRB2, was much more of a set-it-and-forget-it deal. The SRB2 worked much like the Moscow Muffler, by generating an internal clock and comparing it with the Woodpecker signal.

The nifty thing about the SRB2 is that it was automatic. Once it found a match, it tailored the blocking pulse to suit by dialing in the pulse width, the number of blanking pulses, and their ideal positions. Conversely, the Moscow Muffler used fixed-width pulses, so you had to keep messing with it in order to keep the signal blanked out.

STILL STANDING, SILENT

The Russian Woodpecker interference stopped after the fall of the Soviet Union in 1989, around which time its existence was finally confirmed by the Soviet government. By then, the Russians had moved on to satellites for their early warning purposes.

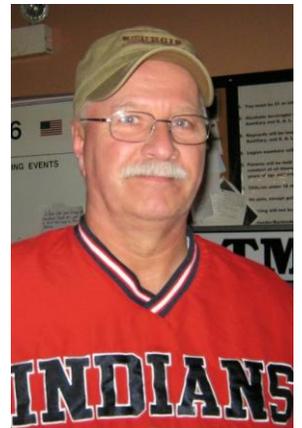
In 2013, a similar signal started to terrorize the shortwaves (<https://mattsworldwonders.blogspot.com/2014/09/the-woodpecker-returns.html>), though not as strongly as the original. It is believed to come from a new Russian OTH radar system called Container, which looks to be nearly as big as Duga. If you want to check it out, tune to 14.270 MHz on shortwave.

<https://hackaday.com/2021/05/11/the-russian-woodpecker-official-bird-of-the-cold-war-nests-in-giant-antenna/>



Retired and On The Road

Dave, WB2DFC
Retired, but Busy Person



Just a quick note from the retirement side... (almost one year). Every day is Saturday but busier than when I was working.... hi hi. (BIG work list from boss lady).

Here's a shack shot from the campground picnic table at Maumee Bay State Park. Just a 25 foot random wire & counterpoise into the Elecraft KX2.

Also our electric bikes in the background.... a great way to get around.... but I need to work on "RF mobilizing" it....hi hi.

RV travel is great.... a different shack shot every few days

72/73 to all - Dave WB2DFC/QRP

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 72 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.

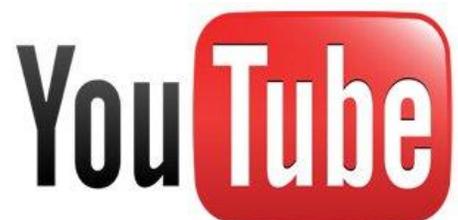
Issuance Information: Amateur Radio plates cannot be issued with system assigned, reserved, or personalized plate formats.

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.



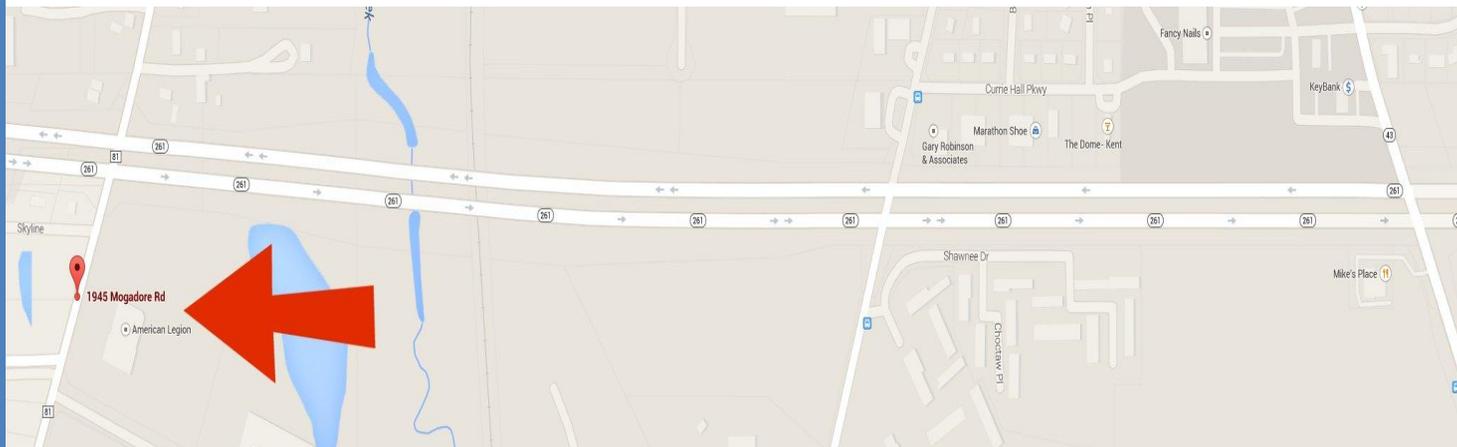
PCARS Meetings

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.



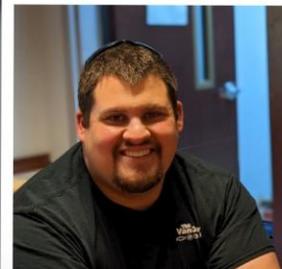
*The picture on the left shows
The American Legion Post 496
as viewed from Mogadore Road.
(looking East)*



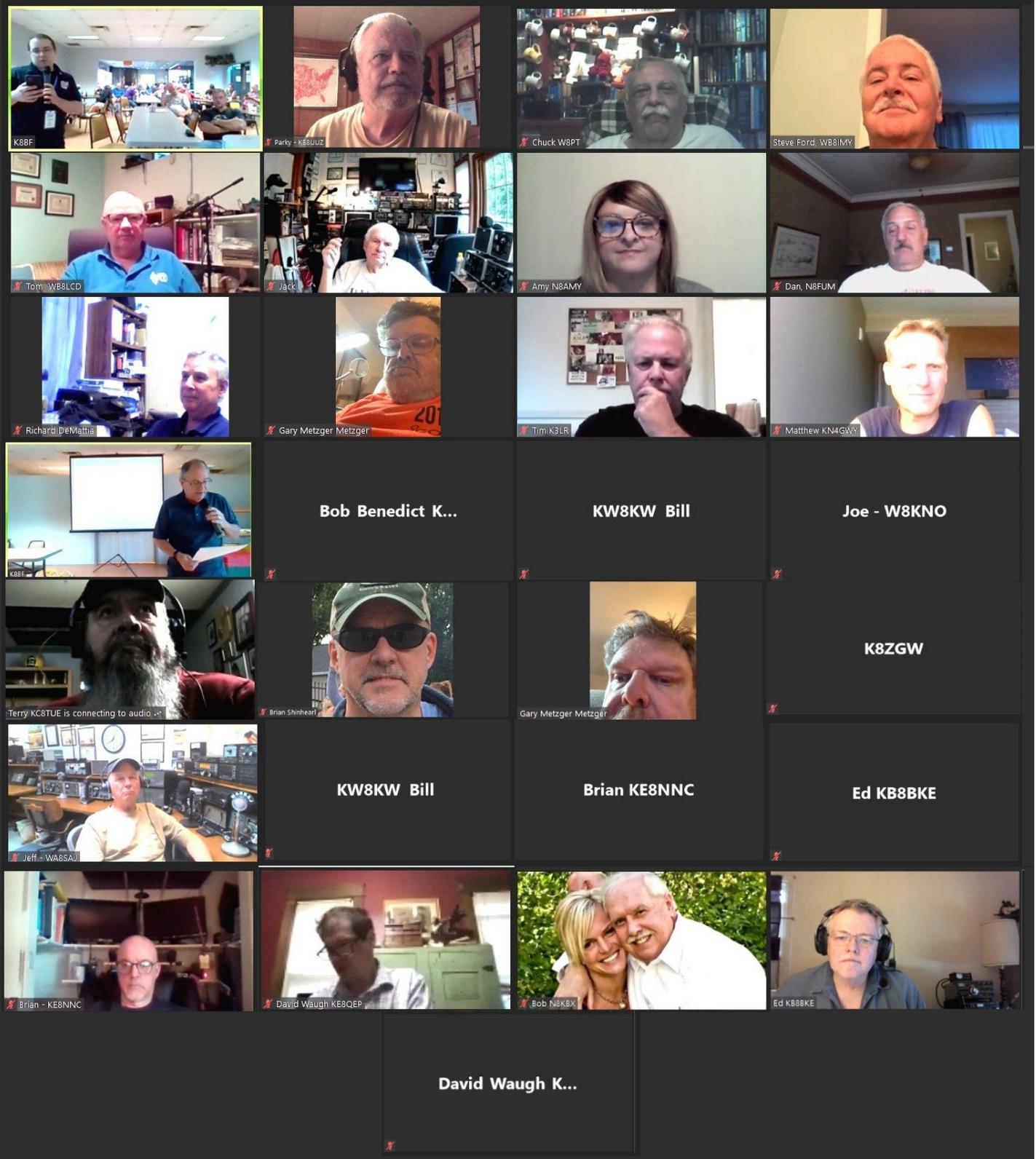
The menu consists of your basic burger / dog / chicken sandwiches, wings, fries, onion rings, and salads. There is also an appetizer selection as well. Adult beverages are available and costs are in line with what you would expect at most bar-restaurant facilities.

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 June Meeting



June 14th





12th Annual Mobile Cruise-In 2021

So you think that you have one of the best amateur radio mobile installations to be found? Well here is your chance to show off that mobile rig and have the opportunity to compare it to dozens of others: HF, VHF, UHF, you name it.

Thursday, August 12, 2019, 6:00 - 8:00 pm

The Portage County Amateur Radio Service (PCARS) will be sponsoring the **12th annual**

Amateur Radio Mobile Cruise-In Night at the



Restaurant - 769 East Main Street in Ravenna.

Hams from all over Northeast Ohio will be cruising in to check out the wide variety of mobile radio setups and get some ideas for their own vehicles.

Prizes awarded for:

1st Neatest Installation

2nd Most Bands Covered

Enjoy an evening of ham radio fellowship and fun and get to know other hams from throughout the area.



More information contact
Nick, AC8QG, at
President@portcars.org



Just for Fun

A SHOE REPAIR STORE IN WINNIPEG: "We will heel you. We will save your sole. We will even dye for you."

AT AN OPTOMETRIST'S OFFICE: "If you don't see what you're looking for, you've come to the right place."

ON ANOTHER PLUMBER'S TRUCK: "Don't sleep with a drip. Call your plumber."

ON AN ELECTRICIAN'S TRUCK: "Let us remove your shorts."

AT A CAR DEALERSHIP: "The best way to get back on your feet - miss a car payment."

OUTSIDE A MUFFLER SHOP: "No appointment necessary. We hear you coming."

IN A VETERINARIAN'S WAITING ROOM: "Be back in 5 minutes. Sit! Stay!"

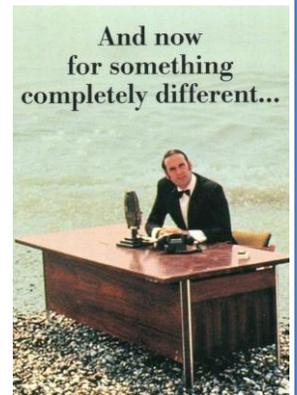
ON A PLUMBER'S TRUCK: "We repair what your husband fixed."

AT THE ELECTRIC COMPANY: "We would be delighted if you send in your payment on time. However, if you don't, YOU will be de-lighted."

IN FRONT OF A FUNERAL HOME: "Drive carefully. We'll wait."

IN A CHICAGO RADIATOR SHOP: "Best place in town to take a leak."

ON THE BACK OF A SEPTIC TANK TRUCK: "Caution! - This truck is full of Political Promises."



And now
for something
completely different...



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 PCARS is known as the **BIG FUN** amateur radio club. So chip-in and send your article in to keep this newsletter great for 2021 and beyond.

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

AC8QG, N8WCP, WA8EFK, WB8LCD, KB8UUZ, WA8AR, W8KNO, KD8IDJ, W0YK, N8AMY, K8CAV, KE8EGF, KA8TOA, K3LR, W8PT, KD8MQ, WB2DFC, On All Bands Blog, Kristina Panos HACK-A-DAY, The ARRL and the World-Wide Web

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



Health Advisory Coming Our Way.... Again?

If you have been following the news about the COVID-19 Delta variant, then you know that is gaining ground around the world and right here in the USA in all 50 states so far. Even if you have received your vaccination shot(s) the word is that masks are probably a good thing to wear - just in case. As much as we all want this COVID thing to be over, all of our good wishes just can't fight the facts. So in the coming weeks and months, don't be surprised if mask mandates return. Until everyone is properly vaccinated, COVID will find a way to keep going. But keep in mind, **we will get through this and things will get better** - just hang in there.



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

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

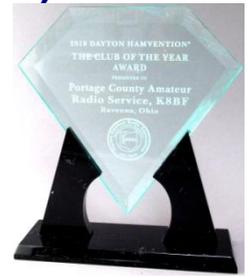


PCARS meets the second Monday of each month at the **Kent American Legion Post 496**,
1945 Mogadore Rd. - just South of Rt. 261 - Enter the rear of the building for the meeting room.

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



~ 2021 Officers ~	2021 PCARS Appointments & Committees	
President - Nick Wagner - AC8QG Vice President - Mike Szabo - N8WCP Treasurer - Paul Hyland - KE8EGF 3 Year Trustee - Amy Leggiero - N8AMY 2 Year Trustee - John Myers - KD8MQ 1 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	AC8NT Jim Wilson
	Field Day Chairman, 2021	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	AC8NT Jim Wilson
	Net Control Manager	KA8TOA Greg Ash
	Net Night - Club Manager	WB8LCD Tom Sly
	Newsletter Editor	KB8UUZ Tom Parkinson
OSPOTA Chairman	KB8UUZ Tom Parkinson	
~ Meetings & Net ~	Public Information Officer	
2 nd Monday of each month. 7pm Thursday night Club Net at 8 pm on 146.895	Secretary	AC8NT Jim Wilson
	Social Media	N8AMY Amy Leggiero
	Tech, Gen & Extra Class Manager	AC8NT Jim Wilson
	Volunteer Examiner Liaison	KB8UUZ Tom Parkinson
	Webmasters	KD8MQ John Myers K8SRR Steve Randlett



**PCARS
Active
Volunteer
Examiner
Team
Members**

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



THE RADIOGRAM

PCARS Incorporated
Nov. 1, 2005

First Meeting
Nov. 14, 2005



ARRL Affiliation
April 20, 2006



Special Service Club
March 22, 2010

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

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



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