



The **RADIOGRAM**

When All Else Fails ~ Amateur Radio Works

~ Official Newsletter of the Portage County Amateur Radio Service, Inc. ~

PCARS - the 2018 Hamvention® Club of The Year

September 2021 - Volume 16 Number 9

GET READY FOR THE

14th Annual
Ohio State Parks On The Air



September 11, 2021

BBQSO Party FUN



PCARS K8BF

The Club that puts the FUN in Ham Radio!





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Portage County Amateur Radio Service



2018 Hamvention® Club of the Year



Ohio State Parks



On The Air



Howard Evans, W8SV - SK

Howard "Hutch" Evans, W8SV became a Silent Key on August 22.

He was a long time PCARS member - number 120. He enjoyed being at the PCARS meetings and was always ready to have a chat and talk about ham radio. He will be missed by many PCARS members. His son Michael, K8FS is also a PCARS member.



Howard Evans, 74, lost a lengthy battle with heart disease on August 22, 2021 and is now resting in peace with the Lord. He was born June 1, 1947 in Akron, Ohio to the late Howard and Frances Evans. Hutch graduated from Kenmore High School in 1965 and from the University of Akron in 1969. At a young age, he obtained an amateur radio license, beginning his lifelong passion for electronics and wireless communication. After 25 years of dedicated service to the City of Akron, Hutch retired in 2004 as a supervisor within the Communications Division. In the workplace, he was widely known and highly respected for his strong work ethic, problem-solving skills, and technical knowledge.

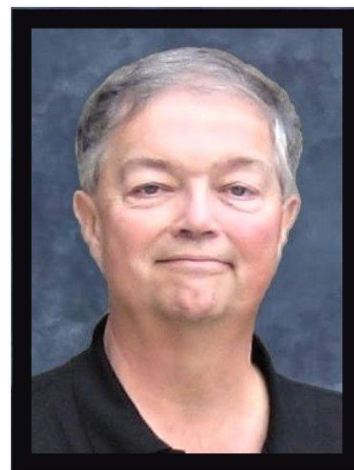
Hutch was also an avid hobbyist of model trains and remote-control airplanes. This enthusiasm ultimately led him to establish a hobby shop, where he has been able to share his love and knowledge with the Akron community over the last thirty years.



However, above all else, Hutch's greatest strengths and accomplishments came from his role as a husband and father. His devotion and dedication to his family was everlasting and unparalleled. Hutch's honesty and dependability made him an outstanding husband, and he made his wife laugh every single day. He was tremendously proud of his two sons, and this was often apparent during even the shortest of conversations with him.

Hutch is survived by his best friend and loving wife of 34 years, Lonnie Evans; sons, Ronald (Ann) Evans and Michael (Andrea) Evans; and many extended family members and close friends. While we will miss him dearly, we find solace in knowing that he is safe in God's care and that his spirit lives on through the lives that he touched.

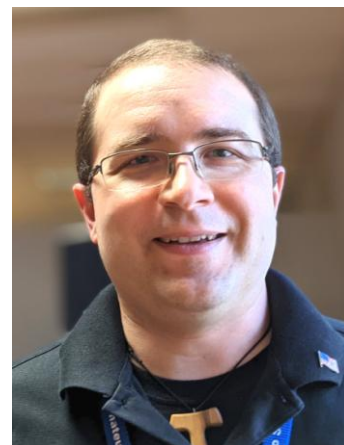
To leave a special message online for the family, visit our website at www.schermesserfh.com.



From the President



Nick, AC8QG
PCARS President



Our Award-Winning Newsletter

First off, I'm happy to say congratulations to Parky, KB8UUZ. The Radiogram once again took First Place in the Ohio Section! Parky, thank you for the time and effort you put into crafting this excellent newsletter each month.

September Fun

September in Northeast Ohio is a great time to enjoy some pleasant weather. The summer heat is starting to subside, but it's still warm enough to get moving on some antenna projects. In fact, we have a new antenna going up at the club site soon which will hopefully give our contest group a nice boost. As always, if you have questions about your antenna projects, join us in person or by Zoom for the Antenna Special Interest Group on the third Tuesday of the month.

September also brings some fun activities. We have an Amateur Radio Technician course starting September 8th. We'll also host a Ham Radio Boot Camp on September 25th to give the prospective hams some hands-on training. If you know anyone interested in getting their license, please invite them to join our class.

September 11th is the Fourteenth Annual Ohio State Parks On The Air (OSPOTA) Contest. My family is heading out to Western Ohio, and our plan is to have fun. We'll have a report next month discussing what went right and what we need to improve for next year. Stay tuned!

Patriot Day

Of course, September 11th is also the tragic anniversary of the terrorist attacks of September 11, 2001. The events of 20 years ago remain etched in my mind. There were many loved ones lost that day and many heroes who stepped up that day.

I'll always remember the firemen, police, and paramedics who bravely moved towards danger to help people they didn't even know. I'll remember the spouses, children, and parents who watched the news and waited by the phone hoping to hear their loved one's voice one more time. I'll remember the volunteers who came to help search for survivors. I'll remember the people too far away to help who joined together in prayer.

There were no political divides that day. For a little while, we were all Americans.

For all who were lost, for all who sacrificed, for all our first responders who came when called, and for all our soldiers, sailors, airmen, and marines who served with honor in the days that followed, I will remember.

Thank You

PCARS is the "Big Fun" club because of the people who participate. Every project, every contest, every meeting, and everything else we do is made possible by you spending some of your time with us. We have some great volunteers, and can always use more, but we also always need people who want to learn, have fun, and enjoy the wonderful world of Amateur Radio. **Thank You** to everyone for making PCARS such an excellent club!



Ohio State Parks



On The Air



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.*

- September 7th - PCARS Board Meeting - Club Site & Zoom - **6:30 pm** (date & time change)
- September 8th - Technician Class starts - *see flier*
- September 11th - Ohio State Parts On The Air (**OSPOTA**) Contest
- September 13th - PCARS Meeting - 7 pm at the Kent American Legion & Zoom
- September 25th - Boot Camp at the club site for new hams - 9 am - 1 pm
- October 2nd - VE Testing at the Club Site - Starts at 10 am
- October 4th - PCARS Board Meeting - Club Site & Zoom - 7 pm
- October 11th - PCARS Meeting - 7 pm at the Kent American Legion & Zoom
- October 20th - VE Testing at the Club Site **7 pm** (end of Tech Class)
- 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



Ohio State Parks



On The Air



Portage County Amateur Radio Service



K8BF



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PCARS K8BF

The Club that puts the FUN in Ham Radio!



Ohio State Parks



On The Air



PCARS VE Testing Information & News

Tom, KB8UUZ
PCARS VE Team Liaison



GOOD NEWS – VE testing has resumed 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.

If you have any questions, don't hesitate to contact me at KB8UUZ@gmail.com. On behalf of the VE team at PCARS, we all look forward to seeing you at the PCARS club site in Ravenna so you can take your license test. Face masks are not State/County mandated at this time, but you are always welcome to wear one.

PCARS VE sessions are scheduled for 10:00 am on the first Saturday of every even numbered month at the PCARS club site in Ravenna.

2021 - October 2nd, (October 20th 7pm - at the end of the Technician Class), December 4th
2022 - February 5th, April 2nd, June 4th, August 6th, October 1st, December 3rd

WALK-INS will be accepted.

- **You must have your FRN prior to taking an exam** - No SSNs will be used on the Form 605 anymore.
- If you are sick, have a cough, a high temperature or have been exposed to COVID-19 or someone that has been infected - please, *do not* come to the club site.
- No food or snacks allowed. Use of masks is still encouraged.
- \$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/core/>

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

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



Email Addresses **REQUIRED**

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

New FCC Application Fees Information

08/16/2021

The schedule of FCC amateur radio application fees likely will not go into effect before **2022**. FCC staff confirmed during a recent virtual meeting with Volunteer Examiner Coordinators (VECs) that the agency is still working on the necessary changes to the Universal Licensing System (ULS) software and other processes and procedures that must be in place before it starts collecting fees from amateur applicants. Earlier this year, the FCC said it would not start collecting fees from amateur applicants before this summer. The new estimate is that the fees won't go into effect until early next year. Once it's effective, the \$35 application fee will apply to new, modification (upgrade and sequential call sign change), renewal, and vanity call sign applications. All fees will be per application. Administrative update applications, such as those to change a licensee's name, mailing, or email address, will be exempt from fees. ARRL VEC manager Maria Somma, AB1FM, said Volunteer Examiner (VE) teams will not face the burden of collecting the \$35 fee. "Once the FCC application fee takes effect, new and upgrade applicants will pay the exam session fee to the VE team as usual, but they'll pay the \$35 application fee directly to the FCC using the **FCC Pay Fees** system," she explained. When the FCC receives the examination information from the VEC, it will email a link with payment instructions to each successful candidate who then will have 10 days from the date of the email to pay. After the fee is paid and the FCC has processed an application, examinees will receive a second email from the FCC with a link to their official license. The link will be good for 30 days. Licensees also will be able to view, download, and print official license copies by logging into their FCC ULS account. The FCC no longer provides printed licenses. Licensees can log into the **ULS** with their 10-digit FRN (FCC Registration Number) and password at any time to view and manage their license and application, **print their license**, and update anything in their FCC license record, including adding an email address.

FEE SCHEDULE INDIVIDUALS - \$35 FEE: New, modification (upgrade and sequential call sign change), renewal, and vanity call sign applications. All fees will be per application. - NO FEE: Administrative updates, such as a change of name, mailing or email address, or license cancellation.

AMATEUR RADIO CLUBS - \$35 FEE: New, renewal, trustee change, and vanity call sign applications. All fees will be per application. - NO FEE: Administrative updates, such as a change of name, mailing or email address, or license cancellation.

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 does take effect, new and upgrade applicants will pay the regular \$15 exam session fee to the VE team as usual, and pay the new \$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 RADIOGRAM Wins 1st Place in Ohio



Tom, KB8UUZ
Newsletter Editor



The RADIOGRAM was awarded the 2021 Ohio ARRL Ohio Section Newsletter Award on August 7th. The ARRL Ohio Section Manger, Tom, WB8LCD presented the award to Parky, KB8UUZ, PCARS newsletter editor at the Columbus Hamfest.

John, KD8IDJ
Ohio Section PIO



The Results for 2021 were:

- 1st Place ... **The RADIOGRAM** - Portage County Amateur Radio Service (PCARS)
- 2nd Place ... **DELARANEWS** - Delaware County Amateur Radio Association
- 3rd Place ... **NEWS BEACON** - Medina County Amateur Radio Club
- 4th Place ... **The WAVEBNDER** - Western Reserve Amateur Radio Club
- Honorable Mention...the exchange - Southwest Ohio DX Association

Next stop is the Great Lakes Division Convention. *The RADIOGRAM* is in the running against the winners from Michigan and Kentucky

ARRL Great Lakes Division Newsletter Award

This award will be given to the highest scoring newsletter submitted in Great Lakes Division competition to the newsletter review committee. Each newsletter for the contest will have been declared newsletter-of-the-year for the Section it represents during the present year; however, when the timing of the Division Convention occurs too early in the year to permit selection of a newsletter for the year, winners for the previous year may be submitted. **Here are the Section Winning Newsletters from each Section (Click on the Newsletter Name to see the sample newsletter):**

<p>Michigan</p> <p><u>The Scope</u></p> <p>The Central Michigan Amateur Radio Club and Lansing Civil Defense Repeater Association</p> <p>Editor: Chris Ranes, NS8Q</p>	<p>Ohio</p> <p><u>The RADIOGRAM</u></p> <p>Portage County Amateur Radio Service</p> <p>Editor: Tom Parkinson, KB8UUZ</p>	<p>Kentucky</p> <p><u>QUA/HAM news</u></p> <p>Bluegrass Amateur Radio Society</p> <p>Editor: Bart Breeding, KB4FEE</p>
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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



Happy Birthday PCARS Members

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

KE8MWD	Shane Kiley
KE8QPY	Erik Fowler
K8YLK	Josh Heiks
KE8JUJ	Nicholas Gichenko
KD8BBT	Andrew Six
W8DMP	Donna Wheeler
KD8VT	James Andrews
WB2RPW	Gary Metzger
KA8OAT	Richard McPeak
W8AHC	Ron Echelberry

N8KBX	Bob Magree
AC8NT	Jim Wilson
KD8PBL	Richard Taylor
KD8FME	Jim Conlin
NT8K	Bob Whiddon
W8IFM	William Dunn
K8NYL	John Andrews
WD8BIW	Karen Warner
KD8JRE	Michael Harris
KD8WBC	Don Manning



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!!

Ohio BB-QSO Party - 2021

Late Breaking News: Nick, AC8QG got some photos of the PCARS people at the club site for the Open House / Ohio QSO Party - better known through the years as the "OHIO BB-QSO-PARTY". Next month, we'll have more on how the club did in the contest. Looks as if the head chef - Bob, N8QE got plenty of BBQ smoke making the burgers & brats !!



Ohio BB-QSO Party - Aug 28, 2021

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 [12/02/21]

FOR SALE: Rick Tenan WA8TSI - SK Estate Items for sale. Complete Drake "B-Line" station in museum quality condition: R4B Receiver, T4XB Transmitter with custom cover, MS-4 Speaker and Cabinet with custom cover, MN-2000 Tuner with custom cover, AC-4 Power Supply and connecting cables, Drake W4 wattmeter, Shure 444 Microphone, Items were serviced and brought up to top operating condition by Jeff Covelli. **\$1200 for the complete set. Separate items are not for sale.** Most manuals included.

Yaesu FT-990 HF Transceiver in excellent condition. MD-1 mic and manual included. \$750

Kenwood TS-820 HF Transceiver in excellent condition with manual. VFO-820, SP-820 and MC-50 mic and connecting cables included. \$ 650 **Heathkit SB-1400** HF transceiver and SBA-1400 speaker/ps in mint condition. \$300

Heathkit HX-30 6 meter transmitter and HA-20 Amplifier in average condition. Includes Comair LM-6N2C 6 and 2 meter manual tuner in fair condition. \$450. **Heathkit HO-10** Monitor Scope in good condition. \$ 50.

Astron RS-50M DC pwr supply in excellent condition. \$250. **Radio Shack 22-510** 25a switching power supply. \$75.

Allied-Radio Shack AX-190 HF ham band receiver in very good condition. \$150 **Siltronics (SWAN) FS-301** SWR meter with 1000w and 20w scales in good condition. \$50 **Radio Shack Pro-2044** Scanner. \$35 **Royce 2-100** Field Strength & SWR meter. \$15

Midland 23-135B Field Strength meter. \$10 **Lafayette Telsat SSB-75** SSB and AM transceiver. \$50 **Vibroplex 40135** Iambic key in "like-new" condition. \$75 **Radio Shack HTA20** 2 meter mobile transmit amp. \$60.

SGC SG-239 HF Smartuner. \$125 **DSI-5500** 50hz-512mhz frequency counter. \$60

MFJ-260C dummy load. \$45 **MFJ-464** CW Keyer and reader in excellent condition. \$145 **MFJ-1702** 2 position coax switch. \$35 **MFJ-945D** Mobile tuner. \$90 **MFJ-945E** Mobile tuner. \$125 **MFJ-949E** Deluxe Versatuner II. \$125

MFJ4225MV 25A power supply. \$50 **"On the Air"** sign Large backlit. \$50 **RCI-5054** 6m SSB

transceiver. \$190 **J-38 style straight key** mounted to heavy base. \$45

Contact: Dave Fairbanks, N8NB at 330-501-5031 if you would like to purchase any of the following items. Leave a message if I am not available. All proceeds go to Pam Tenan. [01/02/22]

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

[11/02/21] indicates the ad will run until November 2, 2021.

Ohio State Parks On The Air



OSPOTA 2021 - GET READY



Tom, KB8UUZ
OSPOTA Chairman



Hello OSPOTA fans and participants,

The 2021 **Ohio State Parks On The Air** contest (OSPOTA) is coming up really soon - on September 11th many of you will be making the trip to one of the beautiful Ohio State Parks to set up and get on the air - We will be listening for you!

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

STORIES - PICTURES - LOGS

Stories:

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

Pictures:

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

LOGS:

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



FUN - FUN - FUN

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

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

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

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

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



Ohio State Parks On The Air



14th ANNUAL - OSPOTA - September 11th

Hello OSPOTA fans. Seems like Summer is passing faster than usual and that means the 14th annual OSPOTA contest is coming up sooner than you think. Make your plans, test that antenna set up, get out there and have some fun during OSPOTA 2021 on September 11th from 10:00 am to 6:00 pm eastern time.

A note to remember - you are visiting an Ohio State Park. You are just a visitor, so please keep the area neat and clean and check the surrounding area to pick up any trash accidentally dropped before you depart.

Also, as in the past, some park officials seem to think that since you are participating in OSPOTA, you need some sort of permit - You do not need a permit. You are just a visitor to the park that happens to be a ham operator testing out emergency communications with other hams in other state parks - again, you are a visitor to the park. **However be aware that the local Rangers may still require registration as an "event"**. See the latest information on the OSPOTA web site (www.ospota.org) or on the OSPOTA IO Group site - **THERE HAVE BEEN UPDATES** to the rules and other documents.

You have no special rights as to where you can set up and please don't make any demands to a Park Ranger. That's the easiest way to get tossed out of a State Park. Be polite, invite the Park Ranger(s) to see what you are doing and make sure you let him/her know that this is really like practicing emergency communications for public service. More and more governmental agencies such as Police, Public Health Departments, EMA, FEMA, Dept of Health & Human Services, Red Cross, etc. recognize how important amateur radio is for emergency communications.

"When All Else Fails, Amateur Radio Works".

Most of the time when you talk to the Park Rangers about this aspect - they think it's pretty cool and they leave you alone.

So - be polite - and most of all **HAVE FUN!** Take some pictures while you're out there, too.

Check the rules again (they are posted here and on the main OSPOTA web site - www.ospota.org).

Pick a Park and go for it!



Ohio State Parks



On The Air



Ohio State Parks On The Air



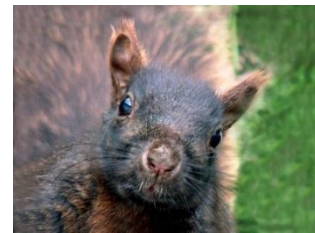
**Visit a beautiful Ohio State Park
and have some Amateur Radio Fun
at the same time!**



**But *PLEASE* Remember
We are Guests**



**Pick up trash
and
clean your area**



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



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



www.ospota.org

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





Posted by CQ Newsroom

Growing Confusion on Bouvet DXpedition

There's bad news, good news and growing confusion on the long-planned (but currently cancelled) 2023 DXpedition to Bouvet Island. There are now three separate groups planning trips to the subantarctic island, including one that split off from the original group (but holds the 3Y0J license) plans to make the trip in 2022 and another that says it's ready to go later this year.

We reported last month that the Intrepid DX Group was working to figure out a way that Nigel Jolly,



K6NRJ, could continue to be captain of the *Braveheart* even though he had to sell the charter vessel because of Covid cancellations. Apparently, that didn't work out, but the ARRL reported in early August that the group had found a "suitable and affordable" vessel whose captain was willing to make the trip to the sub-antarctic island. The new team of up to 12 operators will be led jointly by David Jorgensen, WD5COV, and Kevin Rowett, K6TD.

Meanwhile, Ken Opskar, LA7GIA - who holds the 3Y0J license to operate from the Norwegian island - apparently has split off from the Intrepid DX Group and formed a separate group that is now planning a 2022 visit. Plus, Polish DXpeditioner Dom Grzyb, 3Z9DX, says he has secured a license for 3Y0I and has put together a group to activate the island later this year.

FCC to Allow FM on CB, Automatic Location Transmissions on GMRS/FRS

In a rare reversal, the FCC has agreed to two petitions for reconsideration of earlier decisions relating to permitted transmission modes on Citizens Band (CB), the General Mobile Radio Service (GMRS) and Family Radio Service (FRS).

In its first major change to CB rules in over 40 years, the FCC has agreed to allow FM transmissions on the band along with traditional AM and single sideband (SSB). It was persuaded that interference concerns were unfounded and that "users who hear unintelligible audio on a particular channel can simply select another channel or switch modes." CB radios manufactured with FM capability would still be required to offer an AM option.



For some time now, the FCC has permitted the manual transmission of short data messages in the GMRS and FRS services, but has balked at allowing automatic transmissions of location data out of interference concerns. Motorola has successfully petitioned the Commission to OK automatic data transmissions as well, noting that it would help in the location of lost or injured users who could not manually send out emergency messages.



Ohio State Parks



On The Air



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.

2 hams got the 10 consecutive award this past month Gary, WB2RPW and Bob, WB8OVQ,



2nd quarter stats for 2021 - 301 total check ins for 13 weeks; Average of 23 for each net.

I would like to acknowledge our 2 new net control operators Mike, N8WCP and Doug, WA8UWV. So be kind to them. Also, Many thanks to all the operators who have worked the last couple of years as net control, Without these individuals our club would not be as strong as it is.

73 - Greg, KA8TOA - Net Control Coordinator

September		October	
2	WB8LCD	7	N8QE
9	KD8WCK	14	K8YLK
16	KE8BWA	21	N8WCP
23	N8AMY	28	N8AMY
30	N8WCP		

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





PCARS K8BF

The Club that puts the FUN in Ham Radio!



PCARS Flex Net

Rick, K8CAV

Flex Net Coordinator



Due to a severe weather forecast immediately prior to the Flex Net that was scheduled for Wednesday August 11th I elected to cancel the net in the interest of safety. The net is being rescheduled for Wednesday September 15th at 8:00 PM.

I will be hosting as NCS for this net and we'll be doing something just a bit different. The net will be held on 20 meters at 14.098 MHz plus or minus any QRM USB, using the digital mode, Olivia 8-500 (8 tones, 500 Hz bandwidth). Set your dial frequency for 14.098 MHz, and your mode for USB digital. Make sure the cursor on your fldigi waterfall is set at 1,500 Hz. Technicians cannot use that band.

During the August Digital Special Interest Group meeting, we discussed techniques for operating effectively on a digital-only net by using proper pro-signs and procedures, amongst other topics. For those that were unable to attend that meeting, the presentation can be found here:

https://drive.google.com/file/d/1wAL2KRx6BkoJmSoBBelk2ZGj_0XZpBNS/edit

We can also review any questions about this presentation during the Digital Special Interest Group meeting that will take place on Tuesday September 7th.

PCARS Custom Coffee Cups - Limited Edition- Almost Gone

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

Portage County Amateur Radio Service



2018 Hamvention® Club of the Year

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



Ohio State Parks



On The Air



PCARS Cruise-In 2021



Our **12th Annual Cruise-In** at the **Ravenna A&W** was a fun time for everybody who came out. The weather looked ominous, but it cleared up long enough that we stayed dry the whole time.



Our contest winners each took home \$25 gift certificates to DX Engineering. **Gene, W8NET** won the prize for **the Most Bands Covered** and **Mike, N8WCP** won for **the Neatest Installation**. Congratulations to them both, and thank you to everyone who came out!

Hamfest Calendar

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>

FREE - RF Exposure Calculator

From the ARRL



ARRL Now Provides Free RF Exposure Calculator

The FCC has adopted guidelines and procedures for evaluating environmental effects of RF emissions. The new guidelines incorporate two tiers of exposure limits based on whether exposure occurs in an occupational or "controlled" situation, or whether the general population is exposed or exposure is in an "uncontrolled" situation.



Under the new FCC rules, some amateurs need to perform routine station evaluations to ensure that their stations comply with the RF exposure rules. This can be as simple as running an online calculator to determine the minimum safe distance between any part of your antenna and areas where people might be exposed to RF energy from your station. Although amateurs can make measurements of their stations, evaluations can also be done by calculation.

To make this easy for amateurs, ARRL now provides an [RF exposure calculator](http://arrl.org/rf-exposure-calculator) (<http://arrl.org/rf-exposure-calculator>) on its RF Exposure page. To use the calculator, enter your transmit peak-envelope power (PEP) and operating mode, and answer the questions about the maximum amount of time you might be transmitting. The calculator will give you the minimum distance people must be from your antenna and human exposure.

You can print the results and keep them in your station records. There is no requirement to send your results to the FCC.



Ohio State Parks



On The Air



Sailing Vessel - 100 Years of Ham History



From the ARRL

Sailing Vessel with Ham Radio History Marks 100 Years

The schooner [Bowdoin](#) is a century old this year. Now owned by the Maine Maritime Academy ([MMA](#)) as a training vessel, the ham radio history of the 88-foot (LOA) *Bowdoin* is often neglected. Constructed in Maine specifically for Arctic exploration, the vessel relied on amateur radio for communication during explorer Donald B. MacMillan's Arctic Expedition of 1923 and on the MacMillan-McDonald-Byrd Expedition of 1925 - thanks in part to ARRL co-founder Hiram Percy Maxim, W1AW. The venerable vessel, the official vessel of the State of Maine and the [flagship](#) of Maine Maritime Academy's Vessel Operations and Technology Program, recently underwent a complete hull restoration and refitting and has done a little touring to mark its centenary. Its home port is Castine, Maine.



The longwave transmitters MacMillan used on his earlier missions had proved "unable to penetrate the screen of the aurora borealis," ARRL historian Michael Marinaro, WN1M, explained in his article, "Polar Exploration," in the June 2014 issue of *QST*. In 1923, MacMillan turned to ARRL for help in outfitting his next expedition with better wireless gear. Marinaro recounted, "It was enthusiastically provided." Maxim and the ARRL Board recruited Donald H. Mix, 1TS, of Bristol, Connecticut, to accompany the crew as its radio operator.

M.B. West, an ARRL Board member, designed the gear, which was then built by amateurs at his firm, Zenith Electronics. The transmitter operated on the medium-wave bands of 185, 220, and 300 meters, running 100 W to a pair of Western Electric "G" tubes. Earlier exploratory missions had used gear that operated on longwave frequencies. The shipboard station on board the *Bowdoin* was given the call sign WNP -- Wireless North Pole.

"WNP transmitted weekly 500-word press releases and listings of stations worked and heard," Marinaro said. "Once received by amateur stations, these reports were delivered to local affiliated newspapers of the North American Newspaper Alliance; from there, they were distributed syndicate-wide by telegraph."

MacMillan's subsequent attempt at the North Pole centered around wireless. The objectives supported by the Navy and the National Geographic Society were to determine the full capabilities of radio north of the auroral belt and to explore the northern reaches by air. The outstanding accomplishment of the 1925 expedition was in the sphere of radio. Utilizing shortwaves, the expedition was in consistent contact with the outside world throughout the journey, to the delight of the amateurs who were able to work them. The phenomenal success proved to the Navy that shortwaves were definitely superior to the longwaves and ultra longwaves that fleets had been using.



ON BOARD THE "BOWDOIN," AFTER UNPACKING THE EQUIPMENT from a mountainous pile of packing cases. Left to right: F. H. Schmidt, A.R.R.L. Traffic Manager; D. H. Mix, WNP's operator; K. B. Warner, Editor of "QST"; M. B. West, Zenith engineer who designed the installation; and Dr. MacMillan, the "Bowdoin" skipper.



Ohio State Parks



On The Air



Charlie the Tuner's HF High-Lites

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



Greetings DXers:

Charlie the Tuner's DX High-Lites – September 2021

Fall is almost here and snow is only about two months away. Wait.... What????

It's awful to think about but we have to face the fact that when living in NE Ohio, we have to put up with the least favorite season of the year. The end of E-skip for now. Hey, we're from NE Ohio. We can handle snow. It's the lack of propagation that bothers us during the winter. If you're not on 160 or even 80 meters, you're kind of just treading water on the other bands. Yes, there are the occasional bursts on a couple of bands but for the most part, it's really quiet.

So for now, you need to get on the air and work some DX while it's still around. And speaking of that, let's take a look at what is being offered by way of DX for the next month.

Thanks to the Northern Ohio Amateur Radio Society, Northern Ohio DX Association, Ohio/Penn PacketCluster Network, the AB5K's AR Cluster Networks, NJ1Q & W1AW, WA2HZR, NG3K & ADXO, W3UR & The Daily DX, W7GJ, K8YSE, W8GEX & 60m DX News, W9ILY, DL1SBF, DL7UXG & The DX News Letter, DXNews.com, DX-World.Net, EA5RM, F6AJA & Les Nouvelles DX, HA3JB, I1JQJ/ IK1ADH & 425 DX News, International DX Press, 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.

September...

3Z20, POLAND (Special Event). Members of the PZK in Rzeszów (SP8POP) will activate the special callsign 3Z20UR to celebrate 20th anniversary of the establishment of the University of Rzeszów. Activity will take place between September 15th and October 15th. Activity will be on various HF bands using CW, SSB and the Digital modes. QSL via SP8POP or SP8MRD by the Bureau. See QRZ.com for more details.

6W, SENEGAL, Dani, EA4ATI is QRV with his temporary call sign 6W1/EA4ATI and here for about three months. He is active on 80 to 10 meters using mainly SSB. QSL via EA4R.

5X, UGANDA. Paolo "Paul", IZ3QFD, has once again returned to be active as 5X4E from Moroto, Uganda. Paolo works as a volunteer at St. Jude Children's Care Home. The length of his stay is not known at this time. Activity will be limited to his spare time. This past week was on 20 meters (14235 kHz, between 1800-1930z). PLEASE TAKE NOTE: One report states Paolo does not QSL. Another report states QSL via his ARI Club AGNO-Chiampo - IQ3CO.

9X, RWANDA. Harald, DF2WO, will once again be active as 9X2AW from Kigali (with a new Grid KI48xe) between September 13-28th. He is currently preparing his 160m antenna and will build a Hexbeam with Bamboo Sticks for working on 20-10 meters and dipoles for 40/30 meters. Modes are mainly Digital modes (FT8, PSK31, JT65 and RTTY), with some CW and SSB. QSL via M0OXO or his OQRS. See QRZ.com for pictures.

9Y59, TRINIDAD AND TOBAGO (Special Event). Members of the Trinidad and Tobago Amateur Radio Society (TTARS) will be active with the special callsign 9Y59IND from Port of Spain, Trinidad Island (SA-011), between August 22nd and September 12th. Activity is to commemorate the 59th anniversary of the Independence of the Trinidad and Tobago (Aug 31st). Operations will be on various HF bands and modes. QSL is via LoTW only! No PAPER QSLing.

A60, U.A.E. (Special Event). Members of the Emirates Amateur Radio Society (EARS) will activate special event station

A60EXPO between September 1st and October 1st. Activity is to help promote World Expo 2020 in Dubai which runs between October 1st, 2021, and March 31st, 2022. QSL via EA7FTR. For more details about World Expo 2020, see: <https://www.expo2020dubai.com/en>

AN5, SPAIN (Special Event). Pascual, EA5WO, will be active with the special callsign AN5WAR from Torrent, Valencia, Spain, between September 1-30th. Activity is commemorating 82nd anniversary (September 1st, 1939), of the beginning of World War II. Activity will be on various HF bands. QSL via LoTW or eQSL.

BX30, TAIWAN. Ken, JP1RIW will be active as BX30ARL from New Taipei City until the end of the year to celebrate the 30th anniversary of the Chinese Taipei Amateur Radio League. Activity will be on 40 to 6 meters. Ken operates mainly on the digital modes on weekends. QSL via BM2JCC.

D4, CAPE VERDE (Reminder/Update). Paco, EA7KNT, will be active as D4SAL from Sal Island (AF-086, WLOTA 0610) between August 23rd and September 5th. He will be there scouting out the island for a major operation in December with operators German/EA7AC, Pedro/EA7KNX, EA7KOB and Luis/EA7KOL/CT1ESO.

EM30, UKRAINE (Special Event). Look for special event station EM30RUARL from Chernihivska to be active between now and December 31st. Activity is to celebrate the 30th anniversary of the Independence Day of Ukraine and the 30th anniversary of establishment of the Ukrainian Amateur Radio League (UARL). QSL via UX7UU (UARL Bureau is OK). EM30RUARL is good towards the "UARL-30" award.

EX, KYRGYZSTAN. Andrea, HB9DUR is active as EX0DX from Bishkek. The length of his stay is unknown. Activity will be as time permits on various HF bands. QSL via his home call sign, LoTW, ClubLog's OQRS or eQSL.

HB0, LIECHTENSTEIN. Fred/DL5YM and his XYL Tina/DL5YL will once again be active as HB0/DL5YM and HB0/DL5YL, respectively, from Masescha (Chalet Wanni) between September 5-28th. Activity is usually limited because they will be hiking during the daytime hours. Operations will be on 160-6 meters using mostly CW, with some SSB and RTTY. Watch for some activity in the CQWW DX RTTY Contest (September 25-26th). QSL via their home callsigns, direct, by the DARC Bureau or ClubLog.

HG52, HUNGARY (Special Event). Members of the Budapest Radio Amateur Society (BRASZ) will be active as HG52IEC until September 30th. Activity is on the occasion of the 52nd International Eucharistic Congress to be held in Budapest between September 5-12th. QSL via eQSL only.

HK0, SAN ANDREAS ISLAND. Pedro, HK3JJH is currently active as HK0/HK3X. His length of stay is unknown. Activity has been mainly on 20 meters using FT8 (F/H). QSL via JH1AJT.

HS18, THAILAND (Special Event). Look for special event station HS18IARU to be active through September 30th. Reason for activity is to celebrate the 18th IARU Region 3 Conference (<https://www.iarur3conf2021.org/>) being held in Bangkok between September 20-23rd. There is a lot of excitement surrounding the opportunity of holding this innovative virtual conference for the first time. Operators mentioned are HS1FVL, HS1JZT, HS2KWO, HS3NBR, HS6MYW, HS8HEX, HS8NKB, HS0ONI, E20EHQ, E20MDN, E21EIC, E22UYH, E24OYI, E25CRF, E25ETT and E29TGW. QSL via E21EIC or LoTW. QSL will automatically be sent to all QSL Bureau.

K4, UNITED STATES (Special Event). Members of the Alabama Contest Group (ACG) will be active as K4A between 0000z, September 5th, 2021, and 2359z, September 12th, 2021, to commemorate the 20th anniversary of 9-11. Activity will be on various bands using CW, SSB and the Digital modes (RTTY/FT8). For more details and updates, see Alabama Contest Group's Web site.

KH6, HAWAII, Keith, KC0PP, will be active as KC0PP/KH6 from Maui until September 12th. QSL via his home callsign, direct or by the Bureau.

KH9, WAKE ISLAND. Several sources are reporting that Stacy, KK4WZI, will be active as KH9/KK4WZI from Wake Island (OC-053) in a few weeks (no specific dates). Length of stay was not mentioned. He is going there to work and is expected to return every 6 months. Activity on 40-10 meters using FT8/FT4 (possibly SSB) with a Yaesu FT-891, ATAS 25 antenna and possibly vertical for 40-10m. Hopefully, more details will be forthcoming.

OA, PERU. Alex, DD5ZZ is QRV as OA7/DD5ZZ from Cusco until September 17. Activity is on 40 to 10 meters using SSB, FT8 and FT4, and possibly CW. QSL via DD5ZZ

OE130, AUSTRIA (Special Event). Radio club OE3XAS (Austria District Locator [ADL] 305 Tulln-Stockerau) will activate special event station OE130KUK between Sept 1st and Oct 30th, to commemorate the 130th anniversary of the first telegraphy course in the "Franz Josef-Casern" (barracks) in Tulln. In 1891 a k.u.k cavalry telegraphist course was

first established in the "Franz Josef-Casern" in Tulln (Lower Austria). QSLs will be sent automatically via the Bureau.

R950, ASIATIC RUSSIA (Special Event). Look for special event station R950A to be active from Troitsk, Chelyabinskaya oblast, Russia, until September 30th. Activity is to commemorate the 50th anniversary of the Troitsk Amateur Radio Club.

SV5, DODECANESE. Mort, G2JL is QRV as SV5/G2JL from Lipsi Island for the next three months. Activity on all bands and modes, propagation permitting. Current operations have been on 20 m CW. QSL via his home call sign, direct or via the Bureau. Also, Reiner, DL2AAZ active as SV5/DL2AAZ from Rhodes (EU-001) from Sept 5-19. Holiday style on 40 to 10 meters and the QO-100 satellite, using CW and SSB. QSL via DL2AAZ, direct or via the Bureau.

SV5, DODECANESE. Claudio, HB9OAU, will be active as SV5/HB9OAU from Karpathos Island (EU-001) between Sept 4-16. Activity will be holiday style on 80/40/30/20/17/15/12/10 meters using SSB, RTTY and FT8, with a Yaesu FT-991A into an End-Fed antenna. QSL via HB9OAU, direct (w/SAE & 3 USDs), by the Bureau, LoTW or eQSL.

TK, CORSICA. Frans, DJ0TP is active as TK/DJ0TP from Linguizetta until Sept 14. QSL via LoTW or via the Bureau.

Z6, KOSOVO. Rene, DL2JRM, will be active as Z68XX from Kosovo between September 10-13th. Activity will be mainly on CW on various HF bands, but he will also be in the Worked All Europe DX SSB Contest [WAE] (September 11-12th). QSL via DL2JRM.

IOTA News...

AF-032. (Update/Date Change) Gabor "Gab", HA3JB, will be active as 5H1IP from **Unguja Island**, Zanzibar, between September 17-29th. Activity is will be on 160-10 meters using CW, SSB, RTTY and FT8. He also plans to participate in the CQWW DX RTTY Contes (September 26-27th). QSL via HA3JB or ClubLog's OQRS.

EU-031. Giuseppe, IK5WWA, active as IC8I from **Isola d'Ischia** between Aug 31st and Sept 13th. Activity will be on 80-6 meters. He plans to participate in the IARU Region 1 145 MHz Contest (September 4-5th) and the Worked All Europe [WAE] DX SSB Contest (September 11-12th). QSL via his home callsign, direct or by the Bureau.

EU-041. Paolo, I5WHC, will be active as IM0/I5WHC from **Maddalena Island** between until September 18th. QSL via his home callsign, direct or by the Bureau.

EU-066. Alexander, UA3DLD, will be active as UA3DLD/1 from the **White Sea Island** of Bolshoy Solovetsky between September 7-10th. Activity will be on 40-10 meters using CW and SSB. QSL via his home callsign.

EU-083. Operators Mauri/IU1LCZ, Tony/IK1QBT, Mauro/IK1CJO, Claudio/I1NVU, Joe/I1WXY and Gabriele, IK1NEG will be active as IP1X from **Gallinara Island** (IIA L-018, IFFA 0285, WW Loc. JN44ca) on Sept 11th. They plan to have two stations active during the daylight hours on 40/20 meters using CW and SSB. QSL via the ARI Bureau or direct to IU1LCZ: Maurizio Vignola, Via Pineta 52 fr.Cenesi, 17035 Cisano sul Neva (SV), ITALY.

EU-083. (Reminder) Operators Francis/ON8AZ, Patrick/ON7PQ, Tim/ON5HC and Kurt/ON5DZ will be active as TM3U from **Ile Saint Marcouf** between August 28th and September 9th. Activity will be on 80-6 meters using CW, SSB, Digital modes and QO-100 satellite. QSL via ON8AZ.

NA-037. Fred, KB4DMQ, will travel to **Shemya Island** on September 8th, and is expected to remain there for a two full months. He will use the KL7FBI callsign again, and operate 40/20 meters SSB. QSL via KB4DMQ.

SA-046. Members of the Pernamuco Expeditionary Amateur Radio Group will be active as ZW7I from the Santa Cruz Environmental Protection Area (WWFF PYFF-0373) on **Itamaraca Island** between 2100z, September 17th, and 2100z, September 19th. The team mentioned is Fernando/PS8PL, Ronaldo/PS8RV, James/PU8ROT, Lucas/PY7AN, Jose/PY7BC, Jean/PY7BR, Ricardo/PY7RL and Wagner/ PY7WM. Activity will be on 80/40/20/17/15/12/10 meters using CW, SSB and FT8. QSL via PY7WM, LoTW, eQSL and E-mail.

That's it for now. Get on the air. Use the license that you studied so hard to get. And let me know how you're doing. 73 for now.



Ohio State Parks



On The Air



Portable Ops Special Interest Group

John, KD8MQ
Portable Ops SIG Coordinator



Hi everyone, we missed a month of the Portable Ops SIG, but that doesn't mean we stood still; oh no! Things have been busy for sure! On our regular SIG meeting night a few weeks back, there was the OSPOTA Zoom conference which gave some good information about participating in this great contest (which is coming up on Sept 11th, by the way). Then, a couple weeks back, we found that a ton of new parks had been added to the Parks On The Air (POTA) program. Here in Ohio, we went from just shy of 140 parks to over 270; enough parks to keep a dedicated hunter or activator busy for quite a while.

Plus, it's been a beautiful summer for about anything you want to do outdoors. I know that it's been warm the last couple weeks, but beautiful all the same.

Let's plan to get together at 7PM on September 14th at the club site. Bring your questions, bring stories of your latest adventures. Show & Tell is always welcome. Of course, we want to hear how OSPOTA went for you.

We'll be meeting in person at the club house, but will also be running via Zoom. Here's the link:

Join Zoom Meeting

<https://us02web.zoom.us/j/86483499206?pwd=anA4dXl3ZXVYR0sza3NXZXVoR0xlQT09>

Again, we meet on the 2nd Tuesday of each month at 7 PM at the club site (705 Oakwood St, Ravenna). See you there for the next one on September 14th.

Digital Special Interest Group

Rick, K8CAV
Digital SIG Coordinator



The PCARS Digital Special Interest Group meeting will be held on Tuesday September 7th 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 will be an open forum meeting and we can discuss any topic related to digital communications that you'd like. If there is interest we can also review net operations using digital modes for the upcoming Flex Net on September 15th.

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!.



Ohio State Parks



On The Air



DX & Contest Special Interest Group

Chuck, W8PT
DX & Contest SIG Coordinator



Hello PCARS DXers and Contesters:

On August 24th at 7PM we held our DX/Contesting Special Interest Group meeting at the PCARS Club site. We had eight members present in person and five more attending by way of ZOOM.

I know that you might be reading this after the Ohio QSO Party event, but I will report the gist of the meeting as if this report were being seen prior to the event.

We reviewed the rules for the Ohio QSO Party that took place August 28th. Since we are still being impacted by Covid 19, I wanted to make sure that we all would be staying safe and taking the needed precautions. I made sure that everyone who operated would be bringing their own headsets and if they didn't have a headset, that they knew the club would provide a sanitized headset for their use.

We also had one member on ZOOM that had never participated in a contest, tell us that he would be there to operate. We made sure that he knew we would not let him sink. This is exactly why we have these meetings. We want to encourage those who have never contested, feel comfortable when they join us to operate. We will mentor anyone who wants to try their hand at contesting. If you would like to do this, even if you never become a serious tester, be sure that we will give you as much training as you would like.

We also looked at some upcoming events in September, including the following state QSO Parties: Texas, New Hampshire, New Jersey, Maine, and the Washington State Salmon Run, which is their state's QSO Party. Other contests that might interest some of us are the ARRL September VHF Contest; the NA Sprint, CW mode; and the CQ Worldwide DX Contest, RTTY mode. There are other state QSO Parties taking place in September.

We also discussed the fact that we have a new tower and antenna to install. This will take place in September, weather permitting of course. The dates will be forthcoming and they will no doubt be on weekend days. Watch the web site for more details as they are released.

That's it for this month. Thank you to those who showed up either in person or by ZOOM. See you next meeting.



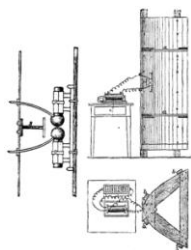
An Introduction to Microwaves

Jim, AC8NT



As a ham radio operator, I am always looking for new areas in my hobby. I am working on projects in amateur radio astronomy and receiving signals from GOES, NOAA and other communications satellites. I am also working on a couple of point-to-point projects. All these have one thing in common. They utilize microwave signals. There is a lot of material to learn as you enter this technology. My goal in a series of articles is to introduce microwaves. I will be starting this introduction to antennas and feed points. One of the often-used microwave antenna types is the dish antenna. In this article I will discuss the math behind the parabolic dish, various key elements in the design, and construction variations.

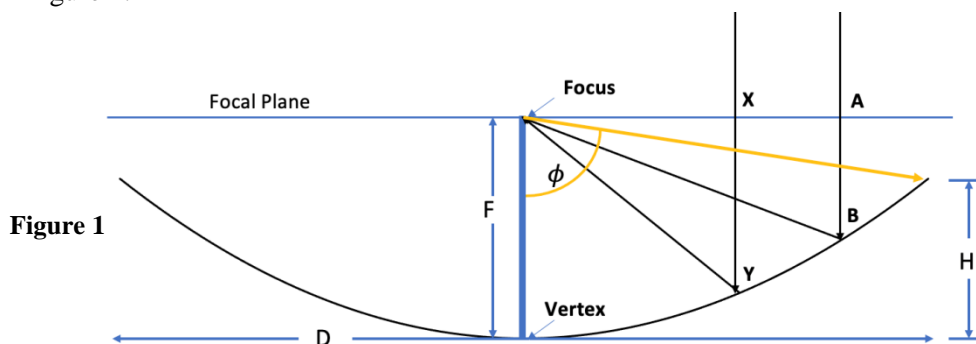
A Little History



The use of a parabolic dish antenna for radio signals has a long history. Physicist Heinrich Hertz constructed the first parabolic reflector antenna in 1888. He used a spark gap excited dipole to prove the existence of radio waves. These were experiments made at frequencies we now include in the UHF spectrum (about 450 MHz). However, the bulk of early radio was in HF where dish antennas are not practical. The study of dish antennas didn't flourish until World War II with the research and development of radar.

The Parabola

We start with a basic understanding of the math of a parabola. A parabolic dish is simply the rotation around the axis of a line between the vertex and the focus of a parabola. We will be looking at a two-dimensional cut through a parabolic dish as shown in Figure 1.



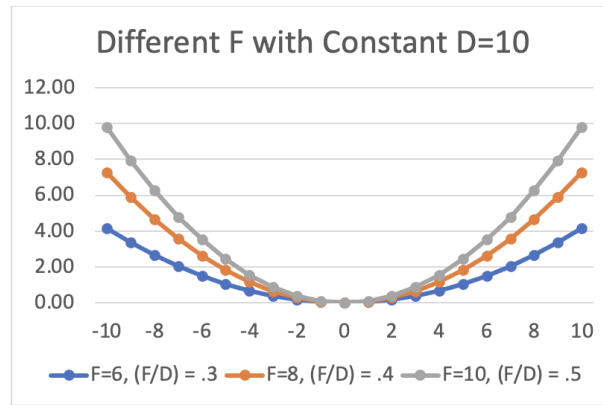
Graphing the Parabola

In Figure 1 the vertex, the base of the dish in this example, is located at 0,0. This is a convenience to make the math simpler. With the distance between the vertex and the focus called "F", also known in optics as the focal length, the equation for the curve with a vertex of 0,0 is shown in {eq 1}. Solving for "y" gives {eq 2}.

$$x^2 = 4Fy \quad \text{{eq 1}} \qquad y = \frac{x^2}{4F} \quad \text{{eq 2}}$$

Assuming "F" is in inches (in this example 12"), then "x" and "y" will be in inches. If I plot a curve from $x = -19.5$ inches to $x = +19.5$ inches, the diameter (D) of the dish will be $D = 19.5 + 19.5$ inches or 39 inches. We now have a parabola with a diameter of "D" (39") and a focus distance of "F" (12"). The key parameters are D and F and the F/D ratio (in this example $12"/39"$ or .31). The F/D ratio defines the "shape" of the parabola. Examples of different F/D ratios can be seen in Figure 2. As F gets larger for constant diameter, the dish becomes less "flat". The F/D ratio is a key parameter in a dish antenna's design.

Figure 2



ϕ is called the aperture angle. H is the height of the dish. A couple of useful equations used in defining a parabolic dish are equations 3 and 4.

$$\frac{F}{D} = \frac{1}{4 \tan^2\left(\frac{\phi}{2}\right)} \quad \{\text{eq 3}\}$$

$$F = \frac{D^2}{16H} \quad \{\text{eq 4}\}$$

In a well-designed dish antenna, the E-field produced by the feed point would be evenly distributed across the dish surface defined by the aperture angle and it would not spill over the dish wasting energy.

Another useful equation is developed from the F/D and is shown in equation 5.

$$\phi = 2 \tan^{-1} \left[\frac{1}{4 \left(\frac{F}{D} \right)} \right] \quad \{\text{eq 5}\}$$

If you want to increase your aperture angle you must decrease your F/D ratio. In the next article on feed points you will see more clearly how this equation is important.

Focusing Energy Using a Parabolic Antenna

The key reason for using a parabolic antenna is the fact that signals that cross any point on the focal plane travel the same distance to the focus. Using Figure 1, the distance from A to B to the focus is the same as the distance X to Y to the focus. Since all waves travel the same distance, they all arrive in the same phase they had when they crossed the focal plane. If a plane wave strikes the focal plane all the signals are superimposed (add up) at the focus increasing signal strength. This allows for very large gain factors for parabolic antennas. It is also true that all radiation from the feed point is directed in one direction.

Gain of the Dish

There is a gain contributed by the dish alone. Just the geometry of the dish gives you gain. Equation 6 gives the gain of the dish geometry alone.

$$G = 10 \log_{10} \epsilon \left(\frac{\pi D}{\lambda} \right)^2 \quad \{\text{eq 6}\}$$

Where D is the diameter of the dish and λ is the wavelength of the signal. The factor ϵ is the dish efficiency which will talk about later. Note that the gain goes up as the dish diameter increases and the gain goes up as λ gets smaller. The bigger the dish the better. If you design a dish for 5 GHz, the dish gain will be greater if you use it for 10 GHz because the diameter is the same, but the wavelength is half as long. Looking at the dish alone, it has tremendous bandwidth in the frequency increasing direction. I have worked with dishes covering 5 to 24 GHz. Unfortunately, many other factors affect the system gain of a parabolic antenna. These include feed point options and the materials the dish is made as two examples. If you have an application for 2.4 GHz ($\lambda=0.125$ meters) and a one-meter dish with an efficiency of .6, the gain due to the dish alone is shown in equation 7.

$$G = 10 \log_{10} (.6) \left(\frac{\pi(1)}{.125} \right)^2 \approx 26 \text{ db} \quad \{\text{eq 7}\}$$

That translates to a one-watt signal at the feed point producing 500 watts effective radiation directly in front of the antenna. Considering the very high gain of these antennas, RF exposure is a major concern. **NEVER STAND IN FRONT OF A TRANSMITTING DISH ANTENNA!!!** Remember that dish safety is like gun safety. The mind set should be that there is no such thing as an unloaded gun and there is no such thing as a dish that is not transmitting!! Keeping this in mind will keep you safe.

Dish Efficiency

Without getting into the details of how dish efficiency ϵ is calculated, I would like to list some of the many sources of inefficiency.

- **Radiation Efficiency** – If the field is not uniformly distributed over the aperture, energy may be wasted. A couple of causes for this loss in efficiency are poor conductivity of the dish surface and feed point radiation patterns. Since most dishes are made with a highly conductive material, conductivity loss is usually minimal. However, poor pattern is a bigger issue.
- **Taper Efficiency** – The aperture field tends to diminish away from the main axis leading to lower gain. This is a specific form of radiation efficiency created by the fact the field is not evenly distributed across the entire dish.
- **Spillover** – Spillover occurs when radiation from the feed point spreads beyond the aperture angle and is lost.
- **Signal Blockage** - Equipment in front of the dish usually to support the feed point creates shadows on the reflector. This lost signal creates a drop in gain.
- **Surface Error** – At very high frequencies surface variations can cause radiation to be radiated away from the focus causing a gain drop.
- These are often lumped together in a general term called aperture efficiency

Typical dish antenna efficiency runs from .55 and .70.

Dish Design Options

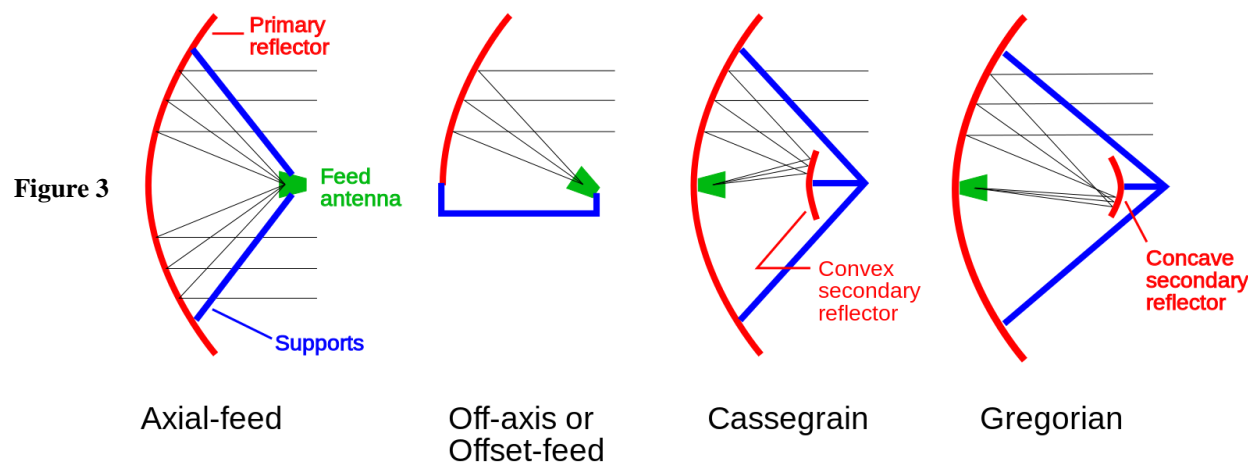


Figure 3 shows four common dish design options. We will discuss some of the pros and cons of each option.

The first option, Axial-feed, is the most recognized option. The feed point, located at the focus, is supported by one or more supports from the edge of the dish surface (Green Bank), a single support radiating from the vertex to the focus (most long range WIFI dishes) or by cables on very large dishes (Arecibo). The advantages are relatively easy design and alignment. The disadvantages are significant gain loss due to “shadows” caused by the support structure and often signal losses in the very long feed lines. Feed line losses in microwave systems can represent very large gain losses to the antenna system; often exceeding all other losses in the system.

Off-axis dish designs are often used for receiving signals for satellite TV and internet. Dishes at these frequencies can be made smaller to reduce cost, space required, and the effects of weather. Because the feed point of the Off-axis design is

outside the aperture it does not shadow any of the received signal. That's good news. The bad news is it only uses a portion of the parabolic area reducing the available gain. They are also a little trickier to design and build.

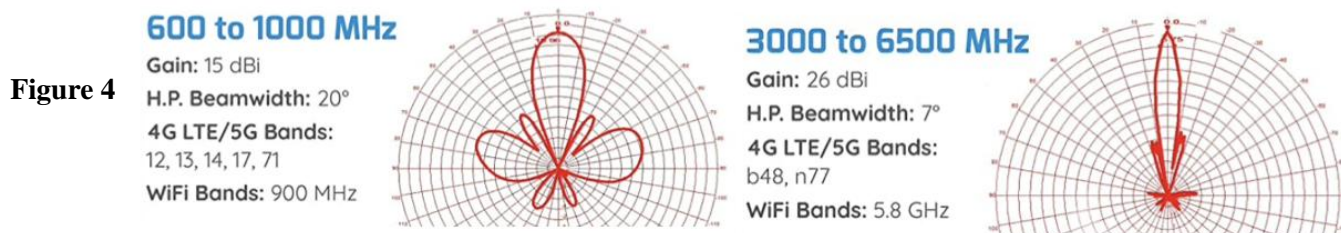
Cassegrain and Gregorian designs are most often used in large dishes. The principal advantage of these designs is reduced losses in getting the signals to and from the feed point. The losses due to the shadow of the secondary reflector are usually much smaller than the losses in the feed lines of an Axis-feed design. Electronics of practically any size can be put at a vertex located feed point.

Beam Width

The projected beam width for the signal radiated by a dish can be complicated to compute. It depends a great deal on the illumination of the aperture angle and can be different in the horizontal and vertical directions. However, we have a formula that can be used to estimate a beam width for a typical circular dish. That equation is shown eq 8.

$$\Psi = \frac{70\lambda}{D} \quad \{\text{eq 8}\}$$

This shows that the beam width gets smaller as frequency goes up. If you design a dish for 5 GHz and use it for 10 GHz the two frequencies will have very different beam widths. Figure 6 shows two frequencies using the same dish.



Construction Options

Here we will answer a few common questions on dish construction. We will be using the WIFI antenna shown below as an example.

The first question is “Does the dish need to be solid?” As you can see in the photo, the dish can be made from a grid. However, there are design constraints. If the feed point is a dipole antenna and the dipole is vertically aligned, the maximum horizontal grid distance (perpendicular to the polarization angle) must be less than one wavelength. The vertical grid distance (parallel to the polarization angle) is less constrained. If a dish uses a circularized polarized feed point, the maximum dimension in any direction of the grid must be smaller than a wavelength. In our example the grid elements parallel to the polarization direction reinforce the polarization of the signal. This is often used to improve signal to noise ratios in point-to-point links. Grid designs provide cost saving and reduce the sail factor of the antenna.



“Can you 3D print a dish antenna?” Yes, you can 3D print the dish. You print a plastic parabolic dish and then plate a thin metallic layer onto the plastic. Remember that RF travels on the skin of the conductor so it need not be a thick coating. This has been done successfully in small dishes under 10” in diameter.



“Does the dish need to be round?” If the feed point radiation does not cover the entire disk, the area not illuminated by the feed point can be removed. In our example, the dipole is vertically oriented so most of the pattern radiates horizontally. Radiation off the ends of the dipole is minimal, therefore, the dish can be shorter in the vertical direction.

“Can a TV dish antenna be used at 5 and 10 GHz?” The dish itself is useful. However, the feed point will need to be modified for most amateur radio applications. They are very easy to find and often free. That makes them very attractive. We will talk about some possible modifications in the article on feed points.

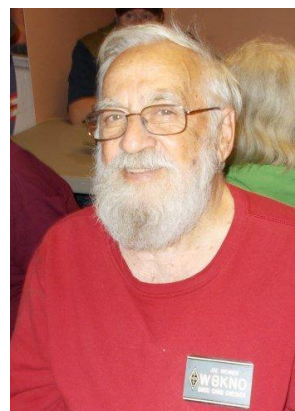
"Where can I find dishes for ham radio projects?" You can find dishes on eBay or at swap meets. If you want a TV dish, just go to your local junk yard. WIFI dishes can be modified for ham radio but there is a problem with grid size. At 5 and 10 GHz the grids elements are too far apart for decent operation. They are, however, useful for picking up weather satellite and low frequency (approximately 1.5 GHz) radio astronomy signals. They may need feed point modification.

I hope this article provided some useful information. It is impossible in one article to cover all the aspects of parabolic dishes, but I hope it provided a useful introduction. In the next article we will discuss interesting topics in the design of feed points.



Paper Chase

Joe, W8KNO



If you have been trying to Work All States, you probably have found Hawaii and Alaska to be two of the harder states to contact.



If you are looking for Alaska, you are in luck this month. The **South Peninsula Amateur Radio Club** is sponsoring "North America's Most Westerly Contiguous Highway Point Special Event" from Anchor Point.

They will be using callsign KL7HOM from 3 p.m. Saturday the 25th until 3 p.m. Sunday our local time. Listen for them around: 7.249, 14.049, 14.249 and 18.149. Voacap predicts 40 meters will be open between 11 p.m. till 9 a.m. and 20 meters from 9 p.m. till midnight.

A QSL can be obtained from: Thomas Kerns - 1189 Cook Way - Homer, AK 99603



Shack Shots - WB8LCD

Tom, WB8LCD



The radio station at WB8LCD has gone through a lot of iterations through the years. I'm pretty happy with it now.

I'm also the receive site for the K8IV repeater. Let's start outside at the Antennas. The tower is a 55 foot Crank Up/Tilt over. It's sitting in about 11 yards of concrete at the base so it's not going anywhere! On top is a 20 foot mast with a Hy-Gain



Explorer 14 down near the tower, an M² 3-element 6-meter Yagi at the top (at about 67' high) and a 2-meter vertical at the top which serves as the receive antenna for K8IV repeater. There's also a 40/80 meter dipole hung from the top of the tower. The 2-meter antenna feeds into the Icom 2-meter / 220 MHz cross band transceiver in the basement, and sends the 220 signal back to the 220 Yagi on a 6' pole next to the tower. It's pointed towards KSU where the K8IV repeater transmitter site is located.



Inside, at the operating position I've got an Elecraft K3S with the matching Elecraft 500 watt amplifier. It's a nice combination that works well together. For 2-meter FM, I use the Yaesu FT-817 into a short mobile whip located just outside the window well you can see in the picture. I really have to characterize myself as a "casual" operator. There are a couple of contests I like to run each year – OSPOTA and the ARRL Sweepstakes are probably my two favorites. I'll occasionally operate others, but, seems like the past few years have not left me

too much time for a casual operation! I do enjoy working DX and Special Event Stations. When I get better control of my time I will go back to CW and try to regain my skills in that mode – I was actually pretty good at one time (at least by my pretty loose standards). I still enjoy operating portable and I have an Elecraft KX3 that goes out with me when we travel.

My station is a culmination of many years in the hobby. The last 20 years have really been my most enjoyable, and that of course, is because of PCARS. I'm really looking forward to the next few years of Cycle 25 as being pretty exciting. I'm going to concentrate on DXCC and hopefully work some rare ones. Although there are a couple other hams here, if you hear a signal coming out of Sugar Bush Knolls – it's probably me!



Thank you all for all the help and friendship I've had since I got my license in November of 1967.

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.



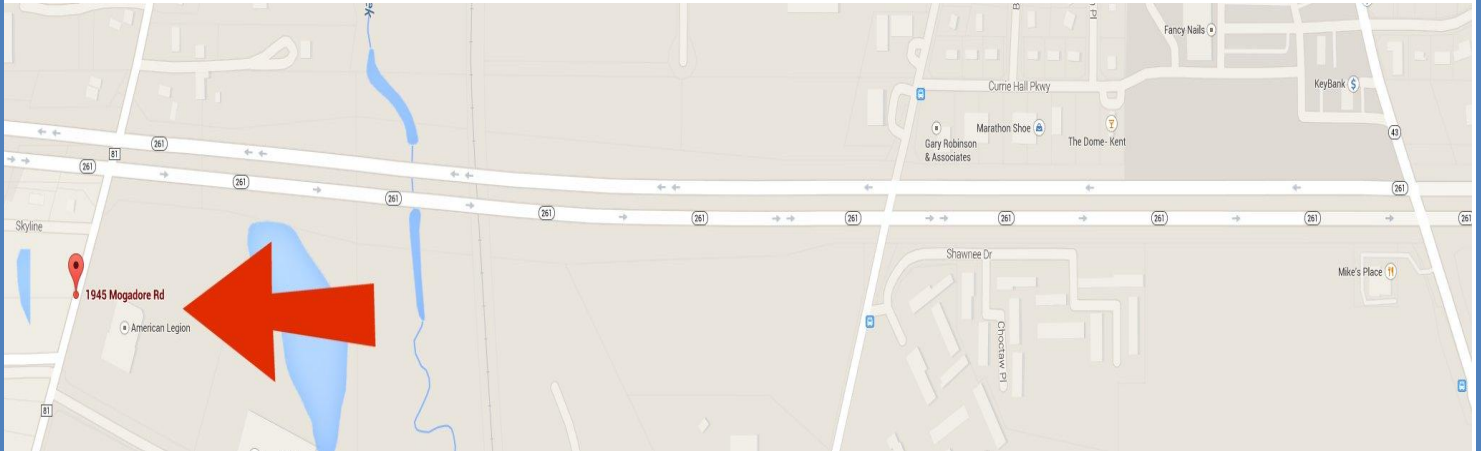
PCARS Meetings

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)*

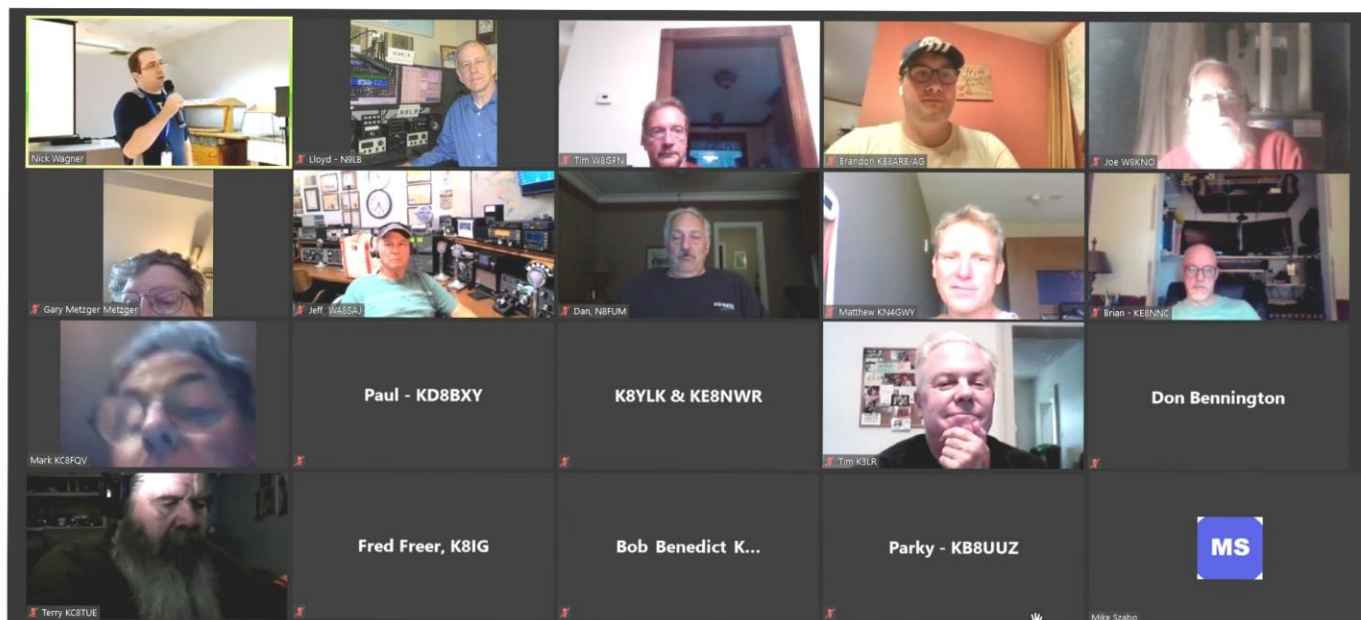
The menu consists of your basic burger / dog / chicken sandwiches, wings, fries, onion rings, and salads. There is also an appetizer selection as well. Adult beverages are available and costs are in line with what you would expect at most bar-restaurant facilities.

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 August Meeting

PCARS - Aug 9, 21





PCARS - Aug 9, 21



~ Amateur Radio Instruction Class ~

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

is sponsoring an Amateur Radio **Technician** course

that will enable *You* to obtain

Your FCC **Technician** license as an

AMATEUR RADIO OPERATOR



When:

Wednesday evening 7:00 p.m. – 9:00 p.m.
September 8, 2021 through October 20, 2021
7 weeks. Official Amateur Radio License testing
will be held at the end of the course (Oct 20th).

Where:

At the **PCARS Club Site** radio room
Radio Room located at:
705 Oakwood St. in Ravenna
Entrance by the Big Tower

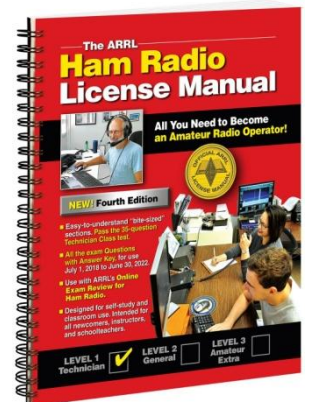
Registration: First night of class

Cost:

\$25.00 Registration fee.
(No Registration Fee for PCARS Members)
\$30 Text – “Ham Radio License Manual”
(text may be purchased first night of class)

Information:

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



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

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

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

Contact Jim Wilson, AC8NT to make your reservation NOW

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

The Portage County Amateur Radio Service, Inc. (PCARS) announces the 14th annual

Ohio State Parks On The Air



14th annual Ohio State Parks On The Air contest

Saturday, September 11, 2021, from 1400 UTC to 2200 UTC
(10 am to 6 pm Eastern Time)

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

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



Rules? Entry Forms? Log Sheets? Ohio State Park Information?
Check out **all** the details at: www.OSPOTA.org

Also, visit the OSPOTA IO Group at: <https://groups.io/g/OSPOTA>

2021 ARRL Great Lakes Division Convention



ARRL
The national association for
AMATEUR RADIO
2021
Great Lakes Division
Convention

Vettecity Hamfest

Kentucky Colonels Amateur Radio Club



A Premiere location for a Premiere Event

The Kentucky Colonels Amateur Radio Club is pleased to announce the 10th Annual Vette City Hamfest and 2021 ARRL Great Lakes Division Convention presented this year at the WKU Knicely Conference Center in Bowling Green KY. Our ARRL sanctioned hamfest is a convention of amateur radio enthusiasts combining a trade show, flea market, and various other activities of interest to amateur radio operators. People interested in technology and Amateur Radio operators or "Hams" meet at our show to buy, sell, and trade radios, computers, electronic equipment and parts. You will find anything from vacuum tubes to the newest high tech gadgets offered by hams, technologists, and commercial vendors from around the country. In addition free door prizes will be awarded each hour plus major gift certificates.

VENDORS

Rafferty's
RESTAURANT & BAR

TNØ7
ENGINEERING

KM4MPF Sales
ICOM Your stop shop for
all of your Radio needs!

\$1.500 of
GIFT CERTIFICATES



SATURDAY
October 2 2021
8:00 am to 4:00 pm
WKU Knicely
Conference
Center

2355 Nashville Rd

Bowling Green, KY 42101

10,000 Sq. Ft. Of Display Space



\$6 Admission
12 & Under Free
Single tables \$8.00
Hourly Door Prizes

Check out our websites
<http://www.ky4bg.com>

www.vettecityhamfest.org

Additional Information

Contact:

Frank Armstrong

K14HEJ

Hamfest Chairman

Email:

vettecityhamfest@gmail.com

Phone: 270-781-0349

2021 ARRL Great Lakes Division Convention



Kentucky Colonels Amateur Radio Club

2021 ARRL Great Lakes Division Convention



ARRL
The national association for
AMATEUR RADIO



Vendor Set-Up:

Friday, October 1 2021 @ 10:30am - 8:00 pm

Saturday, October 2, 2021 @ 6:00 am

Doors Open for Public: Saturday, October 2, 2021 – 8:00 a.m.

Talk-in Frequency: 147.33 Tone: 107.2

Directions to the

Knicely Conference Center, 2355 Nashville Rd.

Bowling Green, KY 42101

From all points: Take I-65 north or south to (Exit 20) I-165

Take the I-165 north to Exit 6. 31-W (Franklin/Bowling Green)

Turn left if southbound, right if north bound at bottom of ramp onto 31-W

Go 1.5 miles, then turn left onto Campbell Lane.

Go .2 mile, then turn right at the Knicely Conference Center sign next to the Staybridge Suites.



Tear Here

2021 VETTE CITY HAMFEST TABLE RESERVATION FORM (Check Or Money Order payable to KCARC)

6' Flea Market Table - \$8 Order: No. of tables _____ Amt. Included _____

Name: _____ Ham Call _____

Street: _____ City: _____ State: _____ Zip: _____

Email: _____ Phone: (____) _____

Mail to: Frank Armstrong - 1622 Flanigan Ct. #4 - Bowling Green, KY 42104

Commercial Vendor Information



**Up to 10,000 sq. ft of indoor
climate controlled exhibit space
is available to**

**accommodate any vendor's
requirements including
tables, draped back drops,
ample AC power at all tables
and**

FREE WIFI

**Facility features 2 loading
docks with direct access to
the exhibit spaces.**

Extensive advertising is
planned and will include
vendor logos and product
information.

**Contact us with your
needs for pricing and
availability.**

Vendor Contact:

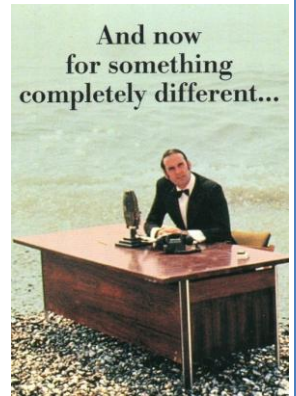
Frank Armstrong

KI4HEJ

Email:

vettecityhamfest@gmail.com

Phone: 270-781-0349



Church Bulletins

Oldies.... Maybe even funnier this time around! Someone is very creative. They're back, those wonderful Church Bulletins! Thank God for the church ladies with typewriters.

Scouts are saving aluminum cans, bottles and other items to be recycled. Proceeds will be used to cripple children.

The sermon this morning: 'Jesus Walks on the Water'. The sermon tonight: 'Searching for Jesus'.

Ladies, don't forget the rummage sale. It's a chance to get rid of those things not worth keeping around the house. Bring your husbands.

Don't let worry kill you off - let the Church help.

Miss Charlene Mason sang 'I will not pass this way again,' giving obvious pleasure to the congregation.

For those of you who have children and don't know it, we have a nursery downstairs.

Next Thursday there will be try-outs for the choir. They need all the help they can get.

Irving Benson and Jessie Carter were married on October 24 in the church. So ends a friendship that began in their school days.

At the evening service tonight, the sermon topic will be 'What Is Hell?' Come early and listen to our choir practice.

Eight new choir robes are currently needed due to the addition of several new members and to the deterioration of some older ones.

Please place your donation in the envelope along with the deceased person you want remembered.

The church will host an evening of fine dining, super entertainment and gracious hostility.

Pot-luck supper Sunday at 5:00 PM - prayer and medication to follow.

The ladies of the Church have cast off clothing of every kind. They may be seen in the basement on Friday afternoon.

This evening at 7 PM there will be a hymn singing in the park across from the Church. Bring a blanket and come prepared to sin.

Low Self Esteem Support Group will meet Thursday at 7 PM. Please use the back door.

The eighth-graders will be presenting Shakespeare's Hamlet in the Church basement Friday at 7 PM. The congregation is invited to attend this tragedy.

Weight Watchers will meet at 7 PM at the First Presbyterian Church. Please use large double door at the side entrance

And this one just about sums them all up: The Associate Minister unveiled the church's new campaign slogan last Sunday: 'I Upped My Pledge - Up Yours.'

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, KB8UUZ, KA8TOA, K8CAV, KE8EGF, W8PT, KD8MQ, AC8NT, W8KNO, WB8LCD, NO8D, CQ Blog, The ARRL and the World-Wide Web

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



It's still here and it looks like it will be for a while

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 Ohio as well as all over the USA. State and local governments significantly ramped up notifications to the public during the pandemic to spread awareness about COVID-19 and accompanying public health measures. The new Delta variant seems to be even more contagious. This is **not** over, we need more people vaccinated to cut down on spreading this virus and its mutations - looks as if masks will be coming back again. **We will get through this - just hang in there.**



A gas powered van, towing a diesel generator, charging an electric car.
The future is stupid...



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

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

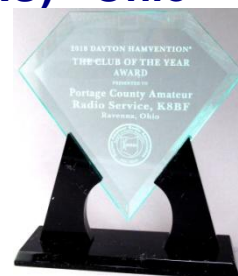


PCARS meets the second Monday of each month at the **Kent American Legion Post 496**, 1945 Mogadore Rd. - just South of Rt. 261 - Enter the rear of the building for the meeting room.

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	
2nd 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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By attending PCARS in-person activities, you are acknowledging that an inherent risk of exposure to COVID-19 exists in any public place where people are present. By attending PCARS in-person activities, you voluntarily assume all risks related to exposure to COVID-19 and covenant not to sue and agree not to hold the Portage County Amateur Radio Service (PCARS) or any of their directors, officers, contractors, vendors or volunteers liable for any illness or injury. While PCARS implements preventative measures to reduce the spread of COVID-19 in accordance with Federal, State and Local guidelines, we cannot guarantee that attendees will not become infected with COVID-19 as a result of attendance.



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



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