



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

December 2023 - Volume 18 Number 12

Field Day 2023 Results



Center of Hope Donation



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





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Jim Korenz - N8PXW - SK



Jim Korenz, N8PXW passed away on November 7th from complications from COVID and pneumonia.

Jim was PCARS member 39 and was a familiar face at the club meetings. Especially remembered when he did a club presentation on fox hunting using a specially designed 4 element phased array that was built into a helmet. And yes, it worked ! Jim was also on the PCARS VE team. He enjoyed the camaraderie of PCARS members at the meetings and was always nice to talk to. He will be missed by many of the PCARS members.

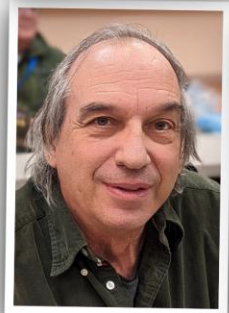
The following was posted on line from the Hopkins Lawver Funeral Home in Uniontown:

James F. Korenz, 76, passed away November 7, 2023.

Born in Akron, he was a resident of Uniontown. He graduated from the University of Akron and retired from Goodyear Tire & Rubber after over 30 years of service. He enjoyed HAM radio, 3D printing, geocaching, and biking.

James was preceded in death by his parents, Frank M. and Pauline Korenz. He is survived by his brother, Richard M. Korenz (Celeste); nieces, Calista Edinger and Kathrine Immel; great-nephews and niece, Liam Caldwell, Wade Robert Edinger, Estelle Mae Immel.

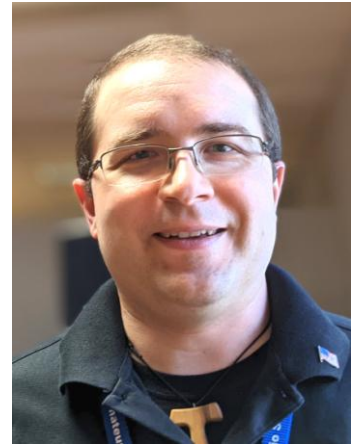
Family and friends were received Friday, November 17th at the Hopkins Lawver UNIONTOWN Funeral Home, 3553 Northdale Street NW (one block NW of the square of 619 & Cleveland Avenue), Uniontown, Ohio 44685. Funeral mass was held Monday, November 20th at Nativity of The Lord Jesus Catholic Church, 2425 Myersville Rd. Akron, OH 44312.



From the President



Nick, AC8QG
PCARS President



Congratulations to our newly elected officers!

I am grateful to our newly elected officers for stepping up and taking on the challenge of guiding PCARS through 2024. I know Mike and Ken are already preparing for a lot of “Big Fun” in the upcoming year.

The best thing you can do to support our new officers is to show up and participate. Let our officers know what you would like to see in the future, and how you would like to help get us there.

Center of Hope Fundraiser

I am once again humbled by the generosity of all the PCARS members who donated to Center of Hope. We're proud to support Center of Hope and the work they do to help people in our community.

Thank you to everyone who donated and made this year's fundraiser another big success!

Thank you!

It's been an amazing three years as president of PCARS! I am so grateful for the opportunity I had to serve you in this role and for the two years before that as vice-president. I could not have done it without the continuous help and support of many club members who volunteered their time, energy, expertise, and insights.

To everyone who helped me along the way, everyone who stepped up in officer and volunteer roles, everyone who contributed time and energy, and everyone who participated in our club activities, thank you!

Merry Christmas and Happy New Year!

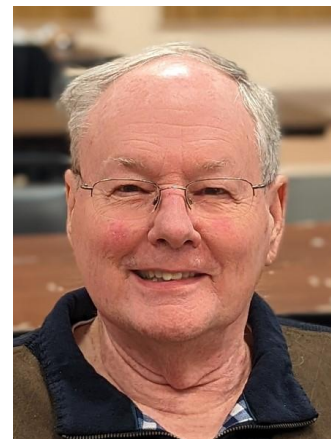
May all of you receive many blessings this holiday season and for the year to come!



From the Vice President



Jim, AC8NT
PCARS Vice President



Thank You and Welcome

I would like to thank the club for the privilege of acting as an officer over the past 7 years. Sometimes it has been a lot of work, but it has always been rewarding. I have lots of fond memories of what has happened. Thanks to everyone.

I would also like to welcome Mike, KP4VZ, our President for 2024, and Ken, WA8LRW, our new Vice President to the Board in leadership positions. I know they will do a great job taking the club forward. They know it will be work, but they have some great ideas that I know you will enjoy. Please help and support them in their new positions.

Tech Class

Our Fall 2023 Tech Class ends November 29th. Participation has been great. We have 4 kids, two dads, and two other adults in the class. This is the first class I have done for PCARS that has been all Zoom and it has worked well. Wednesday the 22nd we our session was at the club site so they could see equipment demonstrations; see how contacts are made and even see antenna tuning in action. This demonstration session was to supplement the class work. I have received a lot of positive feedback, and we need to have more of these sessions both as part of training and to introduce non-hams to the fun of the hobby. I can tell you that it has convinced a lot of the Tech students to get their General as quick as possible. I would really like to thank Rick K8CAV for help with event. Zeb, KD8WZS and JC, KC8JC were there as dads of two of the students and provided support and help. Thanks everyone for the great turnout and help.

Jump Class

We have a class developed to take non-hams to General in one testing session. I have held this course twice and it has provided great results. I call the class "Jump". It is designed to allow a student to take the Tech and General in one VE session. It only adds one day to the training session, so we are not asking for a commitment much larger than that of the Tech class.

If you know of anyone interested in getting his first ham license and maybe making it to General the class will start Wednesday January 10th. If interested, they can send me an email and I will send them all the details (AC8NT@j3solutions.com).



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



Club Officers Elected for 2024

Congratulations to the newly elected officers for 2024

Elections for PCARS 2024 officers were held at the November meeting and Mike, KP4VZ was elected as President. Ken, WA8LRW was elected as Vice President. Greg, KA8TOA was re-elected as Treasurer. Gene, W8NET was elected as Three Year Trustee.

Chuck, W8PT automatically advances to One Year Trustee. Mike, KB8TUY automatically advances to Two Year Trustee. Nick, AC8QG is the Immediate Past President. Paul, KE8EGF was re-appointed as the Secretary.

The new officers will start their terms on January 1, 2024.



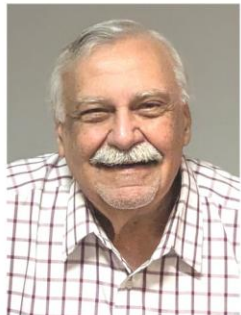
President
Mike, KP4VZ



Vice President
Ken WA8LRW



Treasurer
Greg, KA8TOA



1 Yr Trustee
Chuck, W8PT



2 Yr Trustee
Mike, KB8TUY



3 Yr Trustee
Gene, W8NET



Past President
Nick, AC8QG



Secretary
Paul, KE8EGF

Schedule of Events



- December 2nd - VE Testing at club site in Ravenna - 10 am
- December 4th - PCARS Board Meeting at PCARS Club Site - 7 pm
- December 11th - PCARS Christmas Dinner Meeting at Kent American Legion - 7 pm

Special Interest Groups at the Club Site

- First odd Tuesday - **Digital Special Interest Group** - Moderator: Rick, K8CAV
- First even Tuesday - **HF WAS & DX Nets Special Interest Group** - Moderator: Gene, W8NET
- Second Tuesday - **Portable Ops Special Interest Group** - Moderator: John, WG8X
- Third Tuesday - **Antenna Special Interest Group** - Moderator: Bob, N8QE
- Fourth Tuesday - **DX & Contest Special Interest Group** - Moderator: Chuck, W8PT
- Fifth Tuesday - **Could Be Anything Special Interest Group** - Moderator: Rick, KD8WCK

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

PCARS Custom Coffee Cups - Limited Edition - Get One NOW

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

Portage County Amateur Radio Service



K8BF



2018 Hamvention® Club of the Year

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



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

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

Great Lakes ARRL Division Election Results

ARRL Great Lakes Division Vice Director **Scott Yonally, N8SY** (2,175 votes), of Lexington, Ohio, defeated candidate Michael Kalter, W8CI (2,023 votes), for the position of **Division Director**. Yonally will assume the role when Director Dale Williams, WA8EFK, who has held the seat since 2014, completes his current term at the end of the year.

In the Great Lakes Division, **Roy Hook, W8REH**, will be the next **Vice Director**. Hook ran unopposed for the seat vacated by Director-elect Yonally.

Winners will assume their roles for terms beginning January 1, 2024.



Center of Hope Fund Drive - 2023

Nick, AC8QG
PCARS President



I want to **Thank You All** for your support of PCARS in our annual fund raiser for the **Center of Hope** (a part of the **Family & Community Services**) here in Ravenna. What an **OUTSTANDING** effort in raising funds for the Center of Hope! Every PCARS member should be proud to be affiliated with a club (PCARS) and an organization who serves our community in this way. I can say with certainty that our annual contribution is greatly appreciated!

Our contribution for 2023 = **\$8,633.50**. I'm only guessing here, but among local organizations, we are probably one of the largest (if not **THE** largest) contributions they received. I'm proud to say that since PCARS started donations in 2006, our total contribution to support our community in this way has been **\$87,087.50**

Center of Hope

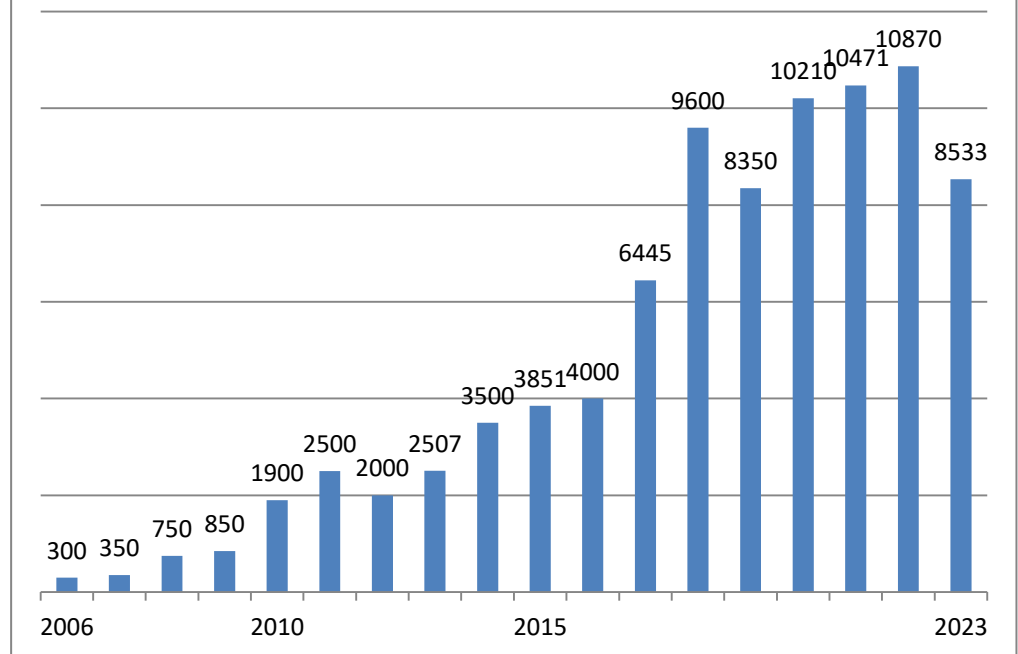


PHOTO: Presenting the check - from left to right:
Jim Wilson, AC8NT - Vice President - PCARS
Mark Frisone - Executive Director
Family & Community Services, Inc.
Nick Wagner - AC8QG - President - PCARS
Greg Ash KA8TOA - Treasurer - PCARS
 at the club site on November 27, 2023.

Well Done PCARS! Let this part of our legacy be something that defines us in the future as an intentional part of our mission to support our community.



PCARS Donations 2006-2023 to Center of Hope



Christmas Dinner Meeting

Rick, K8CAV



The PCARS December meeting will be held at the American Legion hall on Monday, December 11, 2023. Dinner will be served at 7:00 PM *sharp!*

Reservations were open on the club website through November 30th

Christmas Dinner

This is our annual **Christmas Dinner meeting**, open to all PCARS members and their families. The dinner will be catered by the Kent American Legion.



The entrees for this year's dinner will be your choice between **Chicken Breast or 7 oz. Strip Steak**. All dinners will include parsley potatoes, candied carrots and a salad. Beverages will be available from The American Legion Canteen.

Reservations were open on the club website through November 30th

Don't forget, the dinner will be served at 7:00PM.

PCARS gift exchange after dinner!

After the dinner, there will be a short PCARS meeting along with our **PCARS Gift Exchange!** Please bring a ten-dollar gift and mark it for a **HAM** or a **NON-HAM**. (Non-ham gifts should be gender neutral.) If you are bringing children, please bring a special gift for your own children, and mark the child's name on the gift so we can make sure it gets to him or her. There will be a table with two baskets, one labeled "HAM" and the other labeled "NON-HAM" with slips of paper in the front of them. Put your gift on the table, pick up a slip of paper, write your callsign and deposit in the "HAM" basket *if you brought a ham gift*, or, write your name on it and deposit it in the "NON-HAM" basket *if you brought a non-ham gift*. **PLEASE:** do not deposit a slip if you did not bring a gift for the EXCHANGE!



Hope to see you there!

Happy Birthday PCARS Members

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

KE8LWM	Holly
N8AMY	Amy
KP4VZ	Mike
KB8UHN	John
K5JMS	John

K8IV	Ed
KA8TOA	Greg
KE8FNS	Bruce
N8XTH	Deron
N8ND	Mike



Field Day - 2023 Final Results



Tony, WA8AR
Field Day Chairman



Our 2023 Field Day effort was successful, bettering our score from 2022 (see the December Issue of QST for a complete summary or FD 2023). As most of you know by now, K8BF placed 3rd in the nation in class 4A, 1st in the Great Lake Division and 1st in our Section. That result was achieved thanks to a large number of our fellow members volunteering to pitch in and help with all aspects of our Field Day planning, preparation and operations. However, this year we did not achieve our goal of making PCARS first place in the nation in our operating class! Regardless, everyone who participated in Field Day had a good time, and we all gained valuable experience, which should put us in a position to do even better in 2024.

Planning for Field Day 2024 actually began right after this year's event with an After Action Review, detailing what went well and noting areas where we can improve. We will follow this up beginning this January with our first Field Day Staff meeting to begin planning Field Day 2024.

We always need to keep in mind that ARRL Field Day has two purposes, first it is a national emergency communications preparedness exercise and second it is a contest. PCARS has always been dedicated to having fun with our Amateur Radio hobby while enhancing our technical operating skills.

I invite all PCARS members to participate in Field Day some way and to continue having BIG Fun with Ham Radio!

4A

Indy United ARC W9SU (+W9RCA)	4,873	2	40	21,066	IN
Huntsville ARC K4BFT (+K4GIG)	5,032	2	71	17,740	AL
Portage Co. ARS K8BF (+AC8NT)	3,783	2	62	12,815	OH
Lake ARA K4FC (+N4FLA)	3,104	2	42	12,009	NFL
Livonia ARC/Ford ARL K8UNS	2,972	2	64	10,404	MI
WCARS Murphy Chapter KT4Q (+K4LOJ)	2,836	2	47	10,394	NC

Contact Totals by Operator

#	Operator	Contacts
1	WB9LBI	511
2	K8KSU	458
3	W8PT	419
4	K8IV	382
5	K8RR	313
6	K3GP	241
7	N8QE	228
8	N8WCP	169
9	K8FF	161
10	N8BI	129
11	W8NET	105
12	N8NB	82

#	Operator	Contacts
13	KD8WCK	81
14	KE8BWA	77
15	AD8IR	74
16	KA8TOA	73
17	WA8LRW	67
18	KP4VZ	61
19	W8KNO	42
20	W8AHC	34
21	AD8FQ	25
22	AC8NT	17
23	KB8TUY	8
24	WD8DAU	1



PCARS Field Day 2023

Portage County Amateur Radio Service - Field Day 2023

Call Used: **K8BF** GOTA Call: **AC8NT** ARRL/RAC Section: **OH** Class: **4A**
 Participants: **62** Power Source(s): **Generator, Battery, Solar** Power Multiplier: **2X**
Score Submitted: 10,900 + 1915 Bonus = 12,815

Score Summary:

	CW	Digital	Phone	Total	
Total QSOs	1081	586	2116	3783	
Total Points	2162	1172	2116	5450	X2 = Claimed Score = 10900 (not including bonus)

Bonus Points:

Description	Points
100% Emergency power	400
Media Publicity	100
Set up in a Public Location	100
Public Information Table	100
NTS message to ARRL SM/SEC	100
Formal NTS messages handled - No.=10	100
Solar power QSOs completed	100
W1AW Field Day Bulletin	100
Educational activity	100

Description	Points
Site Visit by invited elected official	100
Site Visit by invited served agency official	100
GOTA Bonus	125
GOTA Coach	100
Submitted via the Web	50
Youth Participation	40
Social Media	100
Safety Officer	100
Total Bonus Points	1915

Band/Mode QSO Breakdown:



	CW		Digital		Phone		Totals
	QSOs	Pwr(W)	QSOs	Pwr(W)	QSOs	Pwr(W)	
80m	141	100	202	100	-	-	343
40m	916	100	71	100	1478	100	2465
20m	2	100	155	100	568	100	725
15m	22	100	101	100	35	100	158
10m	-	-	4	100	11	100	15
6m	-	-	49	100	-	-	49
2m	-	-	3	100	-	-	3
GOTA	-	-	1	100	24	100	25
Total	1081		586		2116		3783



First K8BF Contact was logged by **K8KSU** at 18:02 UTC on Saturday by the **40 Meter Station** to N2YLJ in WNY.
 Last K8BF Contact (3760) was logged by **K3GP** at 17:59 UTC on Sunday by the **CW Station on 40 Meters** to W4TM in GA.

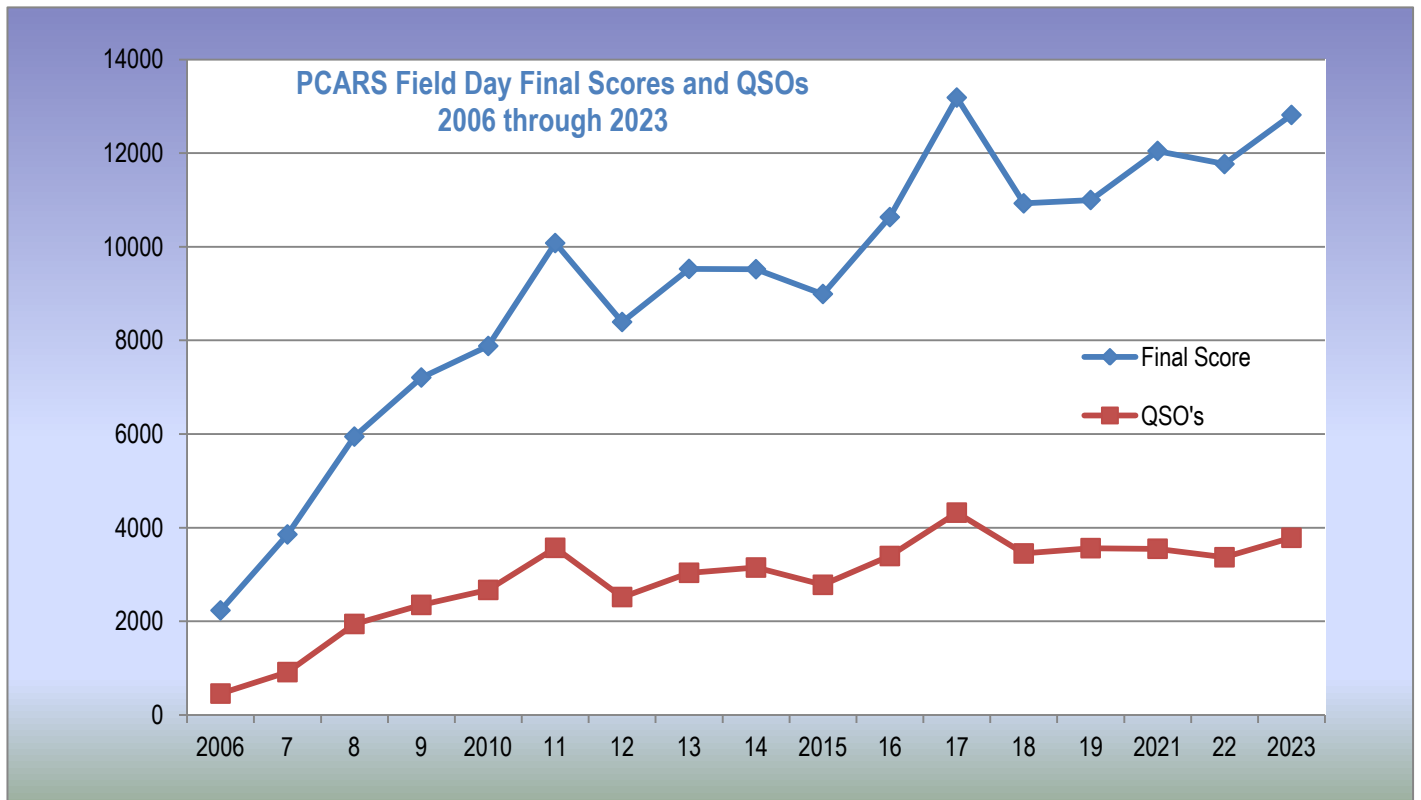


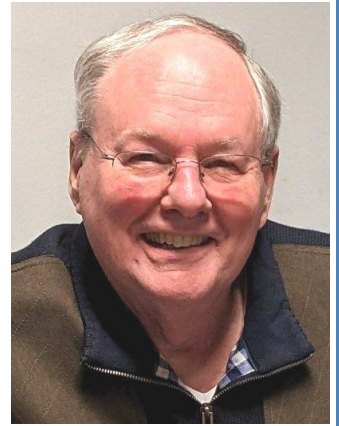
Field Day - Past Field Day Comparisons

PCARS	Final QSOs	Final Score
2023 - K8BF	3,783	12,815
2022 - K8BF	3,367	11,766
2021 - K8BF	3,548	12,046
2019 - K8BF	3,561	10,998
2018 - K8BF	3,448	10,926
2017 - K8BF	4,320	13,186
2016 - K8BF	3,393	10,632
2015 - K8BF	2,778	8,990
2014 - K8BF	3,147	9,520
2013 - K8BF	3,035	9,526
2012 - K8BF	2,517	8,392
2011 - K8BF	3,568	10,078
2010 - K8BF	2,669	7,880
2009 - KD8CKP	2,349	7,206
2008 - KD8CKP	1,942	5,944
2007 - KD8CKP	914	3,854
2006 - KD8CKP	455	2232
16 Year Totals	48,784	156,091



(includes bonus points)





Why 50 ohm Coax ?

This is another question asked by an engineering student. It is also a piece of information that hams should know. She asked why most RF systems are designed using a 50-ohm impedance? For an engineer the answer involves a lot of math involving the TE₁₁ and TE₁₀ transmission modes in RF carrying circuits. This is one of the toughest areas of RF engineering to study. But we can demonstrate the answer using the graph shown. This plot was first printed in late 50's in an IEEE journal. I found it again used in an article edited by Barry Mishkind. The plot was calculated for frequencies in the MF and HF bands.

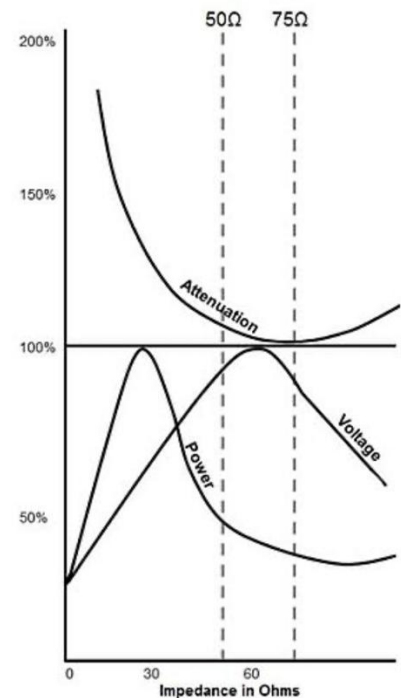
This plot shows the efficiency of a transmission line for power and voltage versus impedance. It also shows the attenuation of the signal versus impedance. Let's look at what it tells us. Remember we need to use our coax for both receiving and transmitting signals.

If you were interested in just transmission of signals, the graph shows the most efficient impedance would be about 30 ohms for power. It also shows the lowest attenuation, best for receiving, is at about 75 ohms. We need both for efficient transmission. A compromise between best for transmission and receiving is 50 ohms. If we were interested in only receiving signals the most efficient impedance would be 75 ohms.

A few interesting points:

1. Ladder line has less loss than coax. However, it is more susceptible to interference than coax. Remember the twin lead 300-ohm feed line used for early TV antennas. It was a reason that ham radio could easily interfere with early TVs. Also, you need to be careful not to run ladder line close to conductors that can reduce signals. That is why you use standoffs in ladder line installation on towers. Coax prevents the interference issue, and the installation does not require standoffs.
2. Modern TV antenna systems use 75-ohm cable for the same reason hams use coax over ladder line, less interference from other transmissions. Also, most modern TV antennas have built-in preamps to overcome transmission losses.
3. Early hard lines were made of common components including .75-inch rods for the center conductor and 2-inch water pipes for the outer conductor (early 2" water pipes had an ID of 1.75 inches). With dry air in the pipes, this combination results in an impedance of about 51.5 ohms. Lines built of these materials could easily carry megawatts of signal. Practicality meets theory.
4. With the use of polyethylene with a dielectric of 2.3 the required center conductor and outer conductor were reduced to .1 and .4. Much less copper which reduced costs drastically. However, power handling was also significantly reduced.
5. I should point that there are changes in these plots when considering frequencies in the UHF and microwave bands.

Now you know why we use 50-ohm coax.



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. The header includes the group name 'PCARS K8BF' and the tagline 'The Club that puts the FUN in Ham Radio!'. Below the header, there are sections for 'Group Description', 'Group Information', and 'Group Settings'. The 'Group Information' section shows 59 members and a 'Join This Group' button. The 'Group Settings' section lists various permissions for subscribers and moderators.

Hamfest Calendar

Here are the current listings of local hamfests. Please note that all are **subject to change**. Stay current by checking the sponsoring club's web page before making your travel arrangements.



03/10/2024 - Northern Ohio Amateur Radio Society Hamfest - Location: Lorain County Community College - 1005 N. Abbe Rd. - Elyria, OH 44035 - Website: <http://winterhamfest@noars.net> - Sponsor: Northern Ohio Amateur Radio Society - Talk-In: 146.70 (110.9) - Public Contact: Carl , W8KRF - 3821 West 152nd Street Cleveland, OH 44111 - Phone: 216-256-9624 - Email: w8krf@w8krf.net

03/17/2024 - Toledo Mobile Radio Association Hamfest and Computer Fair - Location: Owens Community College - 30335 Oregon Road - Perrysburg, OH 43551 - Website: <http://www.w8hhf.org> - Sponsor: Toledo Mobile Radio Association - Talk-In: 147.27/87 103.5 - Public Contact: Brian Harrington , WD8MXR - 4463 Holly Hill Drive Toledo, OH 43614 - Phone: 419-385-5624 - Email: wd8mxr@gmail.com

05/16/2024 - Four Days In May - Location: Holiday Inn - 2800 Presidential Drive - Fairborn, OH 45324 Website: <http://qrparci.org/fdim> - Sponsor: QRP Amateur Radio Club International - Public Contact: David Cripe , NM0S - 118 Hilltop Dr. NE Mount Vernon, IA 52314 - Phone: 319-651-5879 - Email: nm0s@nm0s.com

05-17/18/19-2024 Dayton Hamvention 2024 - Greene County Fairgrounds, Xenia, OH - website: <https://hamvention.org/>

08/18/2024 - Warren Hamfest - Location: Trumbull County - Fairgrounds - 899 Everett Hull Rd. - Cortland, OH 44410 - website: <https://www.w8vtd.com/> - Sponsor: Warren Amateur Radio Association - Talk-In: 146.970 - (100hz normally off) - Public Contact: Andrew Juchnowski , AB8MO - PO Box 809 Warren, OH 44482 - Phone: (234) 238-2312 - Email: hamfest@w8vtd.com

Merry
Christmas





John, WG8X



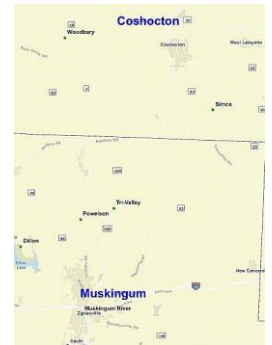
Black Friday Rover

Well, thanks to the Holiday season, I didn't get as many activations done as I'd hoped, but still managed to get out there. I even managed to try out a new rig.



A couple weeks ago, I managed the first of two day-trips for the month. Beginning in Stark County, I headed for downtown Cincinnati. It was too early for chili dang it! After dashing off exactly 10 contacts (no more; no less), I headed to East Fork Wilderness Area, Grant Lake, Eagle Creek Wilderness Area, Johnson Ridge, and finally Whipple Nature Preserve. This netted 72 contacts, and 6 new entities for me. The cost was a full day behind the wheel, and 625 Miles on the trip-o-meter.

This weekend (I'm actually writing this one a couple hours before the deadline for the Radiogram), I did my annual Black Friday Rove. Making the choice between fighting shoppers for a sale-priced widget, and heading out to the parks was a piece of cake. The day started out with a scenic drive down to the Leesville Lake region in Carroll County. From there. The next stop on the list was Simco Wilderness Area in Coshocton County, followed by a short drive to Tri-Valley Wilderness area, which was close by. After that, I broke for lunch, and did a short activation from Muskingum River Lock 10. This site is beside Zanesville's famous Y-Bridge, along the banks of the Muskingum River. This trip netted 106 contacts. The driving distance was a short 225 Miles over 8 hours. Not a bad day's drive.



Last month, I talked about the flood gates opening on adding new US parks to the POTA database. There's been a lot of activity from new parks on the air from all over the country. Here in Ohio, there's been only one park added so far (As of 2300Z, Nov 24, 2023). Clark Lake Wildlife Area (K-10632) which is down near Springfield has already been activated 3 times since being added the other day. That is not counting the number of activations that haven't been reported yet. Hopefully, we'll see more parks added to Ohio by the first of the year.

A few weeks back, I picked up a Xiegu G-90. I guess it'll make a good companion for my G-106. I'm managed a couple of local activations using the G-90. It's OK, but I'm not rushing yet to sell my Yaesu FT-891 just yet. I'm continuing to put the G-90 through its paces here at home over the next few weeks. Maybe I'll have more to report next time.



FOR SALE: Autotek Ltd. DU-500 Duplexer \$40 Three OHMITE L100J50R VITREOUS WIRE WOUND ENAMELED RESISTORS 100W 50Ω One has part of the tab missing. But still able to be used. \$35

I accept Venmo or Zelle. (please contact me before sending \$\$)

Contact Bob, W8RID at w8rid.usa@gmail.com [12/23]

FOR SALE: Palstar: LA-1K solid-state H.F. amplifier (\$3000); **Elecraft K-3 SDR Transceiver, P-3 Panadapter, SP-3 External Speaker, D-104 Microphone** (\$3000); **National HRO-500 C Receiver** 0 to 30 MHz & speaker (\$1500); **Kenwood SM-220 Scopes** one with BS-8 panadpter (\$200) and one without (\$150). 2 spare CRT's; **Bird 4362 (Ham-mate)** wattmeter 140-180 MHz (\$100); **Various RG-8X** coax cables with silver PL-259's (\$5 to \$25); **ELAD ASA15** antenna splitter/amp (100); **Palstar MW-550P** Active Pre-selector / Tuner(\$200); **Heil Sound PRAS-EQ** with Behringer MX-400 Mixer, Lepai LP2020TI 20 watt amp and Dayton Audio B-652 speakers as a set (\$200); **Home Patrol-1** Scanner with a snap stand and belt clip case to carry around (\$200); **Alpha-Delta** Model Delta-4C console type antenna switch (black) (rare) (\$200); Current "gray" desk switch (\$100); Standard flat gray 4 position antenna switch (\$100) **Sony XDR-F1HD** F.M. & A.M. with HD high performance tuners (\$200)

Contact Jeff, WA8SAJ - call home phone (440) 951-6406 for more info [2/24]

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

Contact Joe, K8HTB by email at:k8htb@cfsassociates.com or Text 234-233-5396 [12/23]

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

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

Contact Fred, K8IG at K8IG@arrl.net; call 440-446-8000 or text 440-668-2400 [12/23]

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

The date listed after the contact information tells you when the ad expires - example: [01/24] indicates the ad will run until the end of January 2024.



Skywarn Recognition Day - December 2nd



SKYWARN Recognition Day Set for December 2, 2023

SKYWARN Recognition Day Is Ready to Go

The popular annual SKYWARN[®] Recognition Day (SRD) will be held on December 2, 2023, from 0000Z to 2400Z. SRD was developed in 1999 by the National Weather Service and ARRL. It celebrates the contributions that volunteer SKYWARN radio operators make to the National Weather Service. During the day, SKYWARN operators visit NWS offices and contact other radio operators across the world.

SKYWARN
WEATHER.GOV[®]

SKYWARN Recognition Day Operating Instructions

1. Object: For all amateur stations to exchange QSO information with as many Amateur Radio SKYWARN Spotters and National Weather Service Stations as possible on the 80, 40, 20, 15, 10, 6, and 2-meter and 70-centimeter bands. Contacts via repeaters are permitted. SKYWARN Recognition Day serves to celebrate the contributions to public safety made by amateur radio operators during severe weather events of the past year.
2. Date: NWS stations will operate December 2, 2023, from 0000 - 2400 UTC.
3. Exchange: Call sign, name, location, signal report, a one- or two-word description of the weather occurring at your site ("sunny," "partly cloudy," "windy," etc.), temperature reading if available and SRD Number if the station has one.
4. Modes: NWS stations will work various modes including SSB, FM, AM, RTTY, Winlink, CW, FT8, FT4, and PSK31. While working digital modes, special event stations will append "/NWS" to their call sign (e.g., N0A/NWS).
5. Station Control Operator: It is suggested that during SRD operations for NWS offices a non-NWS volunteer should serve as a control operator for your station.
6. Event and QSL Information: The National Weather Service will provide event information via the [SRD website](#). Event certificates will once again be electronic and printable from the main website after the conclusion of SRD.
7. Log Submission: To submit your log summary for SRD, you can use the online submission form that will be made available on the NWS SRD Recognition main page when the event is completed. Deadline for log submission is January 31, 2024.



Note on NWS Station Operations: For 2023, guidance on in-person amateur radio operations by volunteers will be determined by each National Weather Service Local Forecast Office. Amateur radio operators must make all necessary inquiries ahead of SRD with the appropriate NWS staff at your respective Weather Forecast Office before registering the NWS office for this event.

For more information on SRD: [NWS SKYWARN Recognition Day Main Page](#)

For More Information on SKYWARN: [NWS SKYWARN](#)



Flex Net

Rick, K8CAV
Flex Net Coordinator



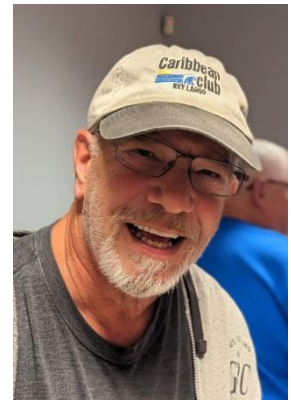
Next FLEX Net will be Wednesday December 13th at 8:00 PM

The next PCARS Flex Net will be held on Wednesday December 13th at 8:00 PM. More info will follow in a QST - so watch the website for information

The PCARS Flex Nets are a lot of fun to participate in! It's also a good place to confirm contacts with other PCARS members for the PCARS A to Z Award. You can also check your station's ability to operate on HF bands using the ground wave mode of propagation. I hope to hear you there!

From the Treasurer

Greg, KA8TOA
PCARS Treasurer



We have had a great year. The first thing to be thankful for of course is this club has a lot of members and great officers who run it. I am very proud of the efforts and behind the scenes activity that goes on to maintain the club and of our membership.

The second thing to be thankful for is the trust and support of my position as Treasurer from the officers and membership to let me continue in this position. It has been an honor to work with everybody and to help out where I can.

With that being said, our dues are due and please remember that is Nov 30, 2023. If you need to pay them now please pay by PAY PAL since the mail lags behind. Most of you have paid and we would like you to stay.

The Center of Hope donations are in and it is another good year for them. I am sure we will get the final figure out to everyone next week after we present the check to them. Christmas party reservations are going well. I would be remiss if I did not Thank Patricia my partner for her help and understanding. I do love this time of year with the Holidays and families, football and friendships.

I hope everyone had a great Thanksgiving and will enjoy the upcoming Holidays as well. Please have fun, be safe and enjoy each other's company. We have a great club, good people and I am proud to be thankful for all of that. Do not be afraid to ask for help if you need it.



Jim, AC8NT



Saturday November 18th we were again setup at the Akron Main Library for the Akron Makes event. This year we were in a position where we could use an antenna on the roof of the building. We setup my Super Antenna on the roof a ran coax from the roof to the Main St. level, through a fire door to my 705. It worked great.



We setup to run FT8. This works best in a public setting. Noise often makes use of SSB very difficult. We had the FT8 display for people to see on one laptop and Nick had his setup to display the map from PSKReporter. Visitors are always amazed by how far away our 10-watt signal was heard. We also had our normal magnetic experiments including homopolar motors and our Lenz's law demonstration. These are always interesting to visitors.

Although the number of visitors was lower than years past, the event allowed us to introduce ham radio to many that had no idea what it was all about. We need to reach this demographic much more frequently in the future. It is our biggest source of potential new hams.

I would really like to thank Nick AC8QG and Doug WA8UWV for helping. They did a great job talking to visitors and helping with setup and tear down.



Portable Ops Special Interest Group

John, WG8X
Portable Ops SIG Coordinator



No Portable Operating Special Interest Group meeting in December

Next SIG meeting will be Tuesday January 9th at 7:00 PM

So that we can all spend time with our families during the holidays we will once again be skipping the December edition of the Portable Ops Special Interest Group.

We will, however make up for it in January, beginning with the SIG group meeting on January 9th. Then, on the 20th, we'll be doing a POTA ParkPediton to Wingfoot Lake SP in Suffield.

You will be able to read more about all this in the January issue of the Radiogram. In the meantime, Merry Christmas!

Digital Special Interest Group

Rick, K8CAV
Digital SIG Coordinator



The Digital Special Interest Group meeting for December has been cancelled

Next SIG meeting will be Tuesday January 2nd at 7:00 PM

It has been a very enjoyable year for our Digital SIG and I'd like to thank all of you who were able to attend, with special thanks to those of you who were able to make presentations for our group.

Starting in 2024, the Digital Special Interest Group meeting will change from the first Tuesday of every month, to the **first Tuesday of ODD numbered months.**

The first Tuesday of EVEN number months will be hosted by Gene, W8NET for his new, **HF WAS & DX Nets Special Interest Group.**

I want to wish everyone a very enjoyable Holiday season. PCARS is truly blessed to have all of you as members of our club and the many colors you bring to it.

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

<https://us02web.zoom.us/j/88355094567?pwd=ZzRvd1hmQWNhYlZlZEcGF0dVhuNlNiQT09>

Meeting ID: 883 5509 4567

Passcode: PCARS2022



HF WAS & DX Nets Special Interest Group

Gene, W8NET

HF WAS & DX Nets SIG Coordinator



Next SIG meeting will be Tuesday, February 6th at 7:00 PM

I'm pleased to announce the creation of the **HF WAS & DX Nets SIG** for PCARS! This SIG will be held every other month – every **EVEN** month – on the first Tuesday. The **ODD** first Tuesday will be the Digital SIG, hosted by Rick, K8CAV. This is the schedule for 2024 HF WAS & DX Nets SIG (with tentative topics):

February 6	Introduction/Logging QSO's/OMISS
April 2	3905 Century Club/Focus on MOBILE!
June 4	HHH/Focus on DX!
August 6	YLISSB/Remote operation (and YOU can do that!)
October 1	SPECIAL event (more details later)!
December 3	TBD

Each SIG meeting will be held at 7:00 PM at PCARS club site in Ravenna. For the first 45 minutes we will discuss a net, how to confirm contacts, what “tools” you can use, what kind of awards the net has, and many other topics. After discussion, on most meetings we will check in to a net – in person or at home on Zoom!

HF nets are a great way to meet fantastic people all over the world on the air, work to achieve your “Worked All States” certificate, and contact many DX entities. Some examples the nets are: 3905 Century Club, OMISS, YLISSB, NATA Traffic Net, HHH Net, and others. Most have websites that explain their schedules, procedures, etc. I will send more information before each meeting. Hope you will join us for **BIG FUN!**

Antenna Special Interest Group

Bob, N8QE

Antenna SIG Coordinator



December Antenna SIG Cancelled

Next Antenna SIG meeting will be on January 16th - 7 pm

The December meeting of the PCARS Antenna Special is **Cancelled** during the very busy Christmas Holiday Season.

Hope to see you at the PCARS Christmas Dinner Meeting.

We will be back January 16, 2024 at our regularly scheduled meeting's day and time.
Everyone have a great holiday season.

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

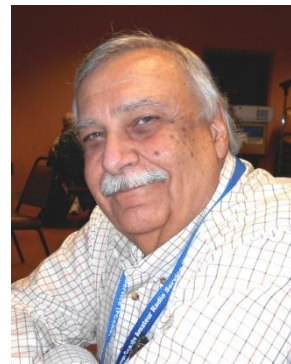
Meeting ID: 872 2035 6586

Passcode: PCARS2022



DX & Contesting Special Interest Group

Chuck, W8PT
DX & Contesting SIG Coordinator



December DX & Contesting SIG Cancelled

Next SIG meeting will be January 23rd at 7:00 pm

This is just a friendly reminder. Since we are finished with contests that are run from the club site, and unless there is a compelling reason for holding a meeting, there will be no DX & Contesting Special Interest Group meeting in December to do the proximity of the holidays.

So our next meeting will take place January 23, 2024 before Freeze Your Acorns Off.

Meanwhile, I encourage you to GET ON THE AIR and even work some DX or get into a contest.

Freeze Your Acorns Off

**Saturday
March 2nd
Fred Fuller
Park in Kent**



**Set up 9 am
on-air until
3 pm

BE THERE**

**Let's show Mother Nature we're tough....
Wear your Hawaiian shirt**

Could Be Anything Special Interest Group

Rick, KD8WCK
Could Be Anything SIG Coordinator



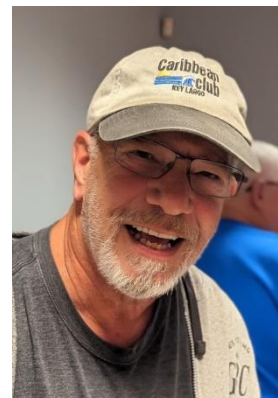
Next SIG will be Tuesday January 30th at 7:00 PM

The next *Could Be Anything* Special Interest Group will be on Tuesday, January 30th - More details to follow - Please mark your calendar and plan to join us!



PCARS Thursday 2 Meter Nets

Greg, KA8TOA
Net Control Coordinator



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

I am in need for some net operators to run the Thursday night nets. It really is not that hard and it is fun, along with good training if you are ever needed for emergencies. I know we have been low on check-ins for the past couple of months. The commitment is only for once a month and this club is worth that. If anyone has ideas for the club, please do not hesitate to speak out at meetings or on nets or call or write. We appreciate the input.

We have some new operators and they are doing a great job which makes my job easier. So, my thanks to all the operators for their help and their commitment. We are averaging about 18 check-ins a week, and that speaks volumes of our club.

December		January		February	
7	N8QE	4		1	
14	KE8BWA	11		8	
21	KD8WCK	18		15	
28	N8WCP	25		22	
				29	



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

PCARS Patches & Stickers



PCARS logo patches (*iron on*) & stickers (stick on) are now available!! Put the patch on your hat, your shirt, your jacket and show off that PCARS logo!! The patch is about 3". The embroidery on the white patch is in Red, Black and Blue.



Cost for a patch is only \$2.00 each and can be obtained at any PCARS meeting. There are 2 types of stickers available - a 4" x 6" oval and a 3" x 10" bumper sticker. Stickers are \$1 each. Show your pride in PCARS - Wear a patch, use the stickers! See the

club Treasurer: **Greg, KA8TOA** or e-mail him at: Treasurer@portcars.org

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

Villager Business Solutions - attention Michelle Zivoder
8088 Main Street
Garrettsville, OH 44231
michelle@villagerbusiness.com 330-472-7304



ARRL Foundation Scholarships



The ARRL Foundation is accepting applications for scholarships through January 10, 2024

The ARRL Foundation Scholarship Program supports eligible amateur radio operators pursuing higher education. The ARRL Foundation manages more than 100 scholarships established by generous donors ranging from \$500 to \$25,000. Scholarships will be awarded for the academic year that will begin no earlier than June 2024 following the application deadline. The scholarships vary in eligibility requirements.

ARRL Director of Development Kevin Beal, K8EAL, said the scholarships pave the way for amateur radio being a hands-on pathway to STEM careers. "We are so thankful to donors who give to ARRL education programs because they are investing the future of amateur radio. The ARRL Foundation Scholarship Program provides financial support at a critical time for students pursuing a college degree and keeps these young radio amateurs active in the hobby."

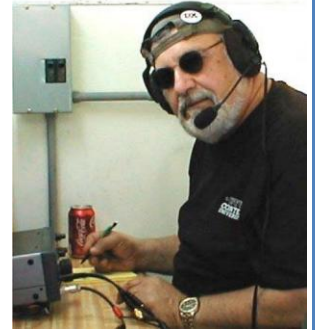
Additional information and a link to the application can be found at www.arrl.org/scholarship-program. The [ARRL Foundation](http://www.arrl.org), celebrating its 50th year, administers programs to support the amateur radio community, and was established in 1973 by [ARRL](http://www.arrl.org).

Here is a direct link to the application: <http://www.arrl.org/scholarship-application>



Charlie the Tuner's HF High-Lites

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



Greetings DXers

Charlie the Tuner's DX High-Lites

Well, did you survive the Thanksgiving dinner? Do you have enough leftovers to carry you until sometime in February? It seems that no matter how many people you have over for the meal, you always can send them home with doggie bags and still have enough leftover to feed 7000 Macedonians in full battle array. Don't ask!

There is still enough DX left over to fill your DXCC coffers and I have a good amount listed below. There are even a few that I myself need and I am hoping that propagation is favorable and that they know that SSB is a viable mode to operate. I have a problem with the DXpeditions that seem to think that everyone has antennas for 10 and 15 meters. But that is my problem and not necessarily yours.

But I'm just saying, let's hope that these hard-to-get places will be kind to us who only have 20 and 40 meters available to them. Let's look at what is scheduled for the upcoming months.

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

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

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

December...

4W, TIMOR-LESTE. A large group of operators will be QRV as 4W8X from Dili until December 5. Activity will be on the HF bands using CW, SSB, RTTY, FT8, and FT4.

5H, TANZANIA. Maurizio, IK2GZU will be active until December 8, signing 5H3MB on 20 to 10 meters. QSL via home call (d/B), LoTW or eQSL.

5R8, NOSY FALY IS. F4EZG will be active as 5R8VE from Nosy Faly Island, IOTA AF - 057, Madagascar, 5 December - 2 January. He will operate on 10, 12, 15, 17, 20m, SSB, FT8. QSL via home call, LoTW, eQSL.

7Q, MALAWI. Don, K6ZO is QRV as 7Q6M from Embangweni for six months while on work assignment in a hospital. Activity is in his spare time on the HF bands and 6 meters using CW, SSB, FT8, and EME. QSL via LoTW.

9L, SIERRA LEONE. M0KRI will be at the Toma Boutique Hotel in Freetown until Dec 6. He will have an IC-7300, IC-706, TS-480SAT and Expert amplifier, 400 watts, to a hex beam and vertical array. He will be on 80-6 and the QO-100 satellite, CW, SSB and FT8. QSL 9L5M to G3SVK, Club Log, or LoTW.

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

CE0, EASTER ISLAND. Jorge, CE0YHF, will be QRV until Dec 10 while working at a hospital on Pascua Island, IOTA SA-001. Activity is in spare time on 30 - 6 m using some CW and SSB, but mostly FT8. QSL direct to home call.

FJ, SAINT BARTHELEMY. Phil, K2LIO is QRV as FJ4WEB until December 31. Activity is holiday style on 40 to 10 meters. QSL to home call.

JD1/O, OGASAWARA. Looks for JD1YCE to be QRV from December 8 to 19. Operators are expected to be JA1C JA

(JH3LSS), JA3ARJ, JA3AVO, JA3IVU, JA3UJR, JA3HJI, JI3DNN and YL JH3PBL. QSL via JA3AVO, LoTW, direct with SASE or to Club Log OQRS.

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

PZ, SURINAME. Nobu, JA0JHQ plans to be active as PZ5NH from Dec 7 to 11 operating on 160 to 6 m, using CW, SSB and FT8. QSL direct or LoTW.

T32, KIRITIMATI IS. T32TT Team will be active from Kiritimati Island, IOTA OC - 024, Kiribati in Dec. Team - Members of the Rebel DX Group. They will operate on HF Bands with focus on FT8 as from T22T. QSL via ClubLog OQRS, LOTW. DXCC Country - East Kiribati, T32.

VK9, COCOS IS. VK9CY Team will be active from Cocos Keeling Islands, IOTA OC - 003, Australia, until 7 Dec. Team - YL2GM, EA5EL. Operating on 160 - 10m, CW, SSB, Digital modes. QSL via YL2GN, ClubLog OQRS, LOTW.

VU, INDIA. Special event station AT30IIH is QRV until Dec 31 to celebrate the 30th anniversary of the Indian Institute of Hams, whose focus is to train and bring young people into the amateur radio community. QSL via bureau.

XT, BURKINA FASO. Harald, DF2WO will be active again as XT2AW from Burkina Faso, 6 - 19 Dec. He will operate on 160 - 6m Bands, CW, SSB, Digital modes and also QO-100 satellite. QSL via M0OXO, OQRS.

ZS7, WOLFS FANG RUNWAY ANTARCTICA. Oleg, ZS1ANF will be active as ZS7ANF from Antarctica until 20 Dec. He will operate on 40 - 10m Bands. QTH - Wolfs Fang Runway. QSL via RK1PWA.

Look Ahead & Reminders...

4S7, SRI LANKA. Peter, DC0KK will be active again as 4S7KKG from Sri Lanka, IOTA AS - 003, until 30 March. He will operate on 20 - 6m, CW, Digital modes. QSL via home call, LOTW, OQRS ClubLog.

7O2, YEMEN. Vladimir, OK2WX will be active as 7O2WX from Socotra Island, IOTA AF - 028, Yemen, 25 Jan - 12 Feb. He will operate on HF Bands with focus on 160, 80 and 40m, and the CQ WW 160m Contest. Working condx - ELECRAFT K4X ICOM 7300, PA Expert 1K3, Monoband Verticals 160, 80, 40, Spiderbeam 5 Band. QSL via IZ8CCW.

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

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

JD1, MINAMI TORISHIMA. Take, JG8NQJ will be active again as JG8NQJ/JD1 from Marcus Island, IOTA OC - 073, Minami Torishima, starting Mid Jan. He will operate on HF Bands CW, FT8. QSL via JA8CJY

TX, CLIPPERTON IS. TX5S Team will be active from Clipperton Island, IOTA NA - 011, Jan 18 to Feb 2. They will operate on 160 - 6m, CW, SSB, Digital Modes, including 60m Band. QSL via M0URX, OQRS. QTH Locator - DK50jh.

V5, NAMIBIA. Gunter, DK2WH is QRV as V51WH from Omaruru until the end of April. Activity is on 160 to 10 meters, including 60 meters. QSL to home call.

ZF, CAYMAN ISLANDS. Stan, K5GO will be QRV as ZF9CW until Feb 15, on the HF bands, using mostly CW, with some SSB. QSL direct to K5GO.

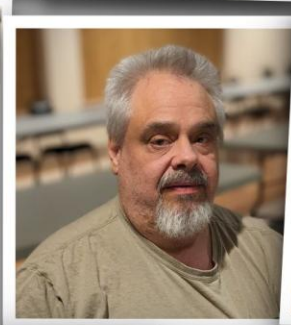
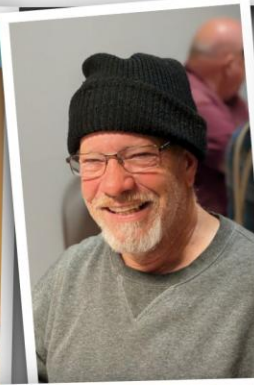
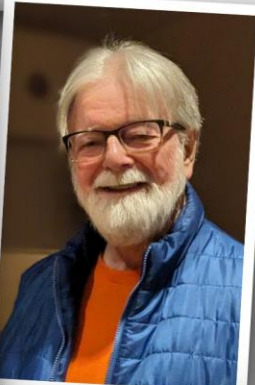
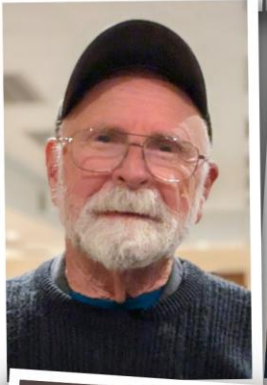
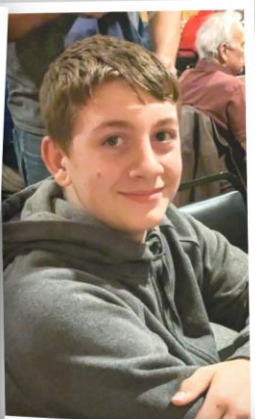
My usual disclaimer: Keep in mind that these DX events can change due to various reasons that sometimes are out of the hands of those who are doing the planning. Keep the either wobbling.

Get on the air and work some DX!!



Photos from the November PCARS Meeting





Nov 13, 2023





PCARS - November 13, 2023



Young Ham Lends a Hand Contest - 2024



Carole Perry, WB2MGP
Director RCA, Youth Activities



We want to reward a young ham who has volunteered to help an elderly person, a military person, his or her community somehow, or a young ham actively involved with recruiting other young people into ham radio. There's no red tape; it's just me and my RCA Youth Activities evaluating the application forms. You will smile to know that we have had high caliber and terrific young hams who get nominated every year.

I am accepting nominees for this contest to encourage volunteerism in our young hams. Forms may be submitted up until April 1, 2024. The winner is usually announced at the Hamvention® Youth Forum. A \$100 stipend is awarded to the winner.

This is sponsored by Radio Club of America. Please contact me with any questions. All forms should be submitted to: wb2mgp@gmail.com by **April 1, 2024**.

=====

Young Ham Lends a Hand Contest
Carole Perry WB2MGP wb2mgp@gmail.com

Please submit the following requests for information about your nominee for this year's contest.

Information about your nominee: Name and call sign - Age - Address - Home Number and Cell number

Please fill in YOUR name, relationship to the candidate and contact info.

Please describe reasons why this nominee is deserving of the award that looks for a young ham who gives back to the community by participating and helping in local events, assisting the elderly, assisting military personnel, or is instrumental in recruitment and/or training of more young hams.

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Youth Activities Program

The Youth Activities program is chaired by RCA Director Carole Perry WB2MGP and has Richard Somers, Ernie Blair, Stan Reubenstein, Gordon West and Charles Kirmuss as committee members.

A major event for the committee is to moderate and to sponsor the annual Dayton Youth Forum where RCA Young Achievers, age 18 and below, give presentations highlighting their technical abilities and enjoyment of radio.

The RCA Young Achiever is a youngster 18 and below who has demonstrated technical excellence and creativity in wireless communications. We are always interested in receiving nominations for these talented young people. Please contact Carole at wb2mgp@gmail.com to nominate someone as a Dayton Hamvention® presenter or as a student deserving the RCA Young Achiever award.

We are also always interested in supporting schools, scout groups, and museums that incorporate radio/technology in their programs. Support can be in the form of books, equipment, or curriculum. Please contact Carole at wb2mgp@gmail.com for further information.

The Youth Activities members travel across the country to speak at radio conventions, to moderate Youth Forums, and to vet large organizations enlisting our help in motivating and supporting young hams and in introducing wireless technology to school curriculum.

Tax deductible donations specifically to RCA Youth Activities can be made through the Richard G. Somers Youth Scholarship Fund. Please contact Carole at wb2mgp@gmail.com for further information.

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

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

We have 80 PCARS member's ham plates now, **but we can use more.** Don't have ham radio call plates on your vehicle? Well for those of you in Ohio, you can get the plates sent to you by going to any License Bureau office and filling out the special plate registration form. Have a copy of your current FCC license when you apply. The official form to obtain your Ohio Amateur Radio license plates is on the PCARS IO Group site. Then you'll have an old plate to bring in to get hung up as a *permanent part of PCARS history.*



From the Ohio BMV:

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

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

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

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

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

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

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

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

PCARS is on YouTube

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

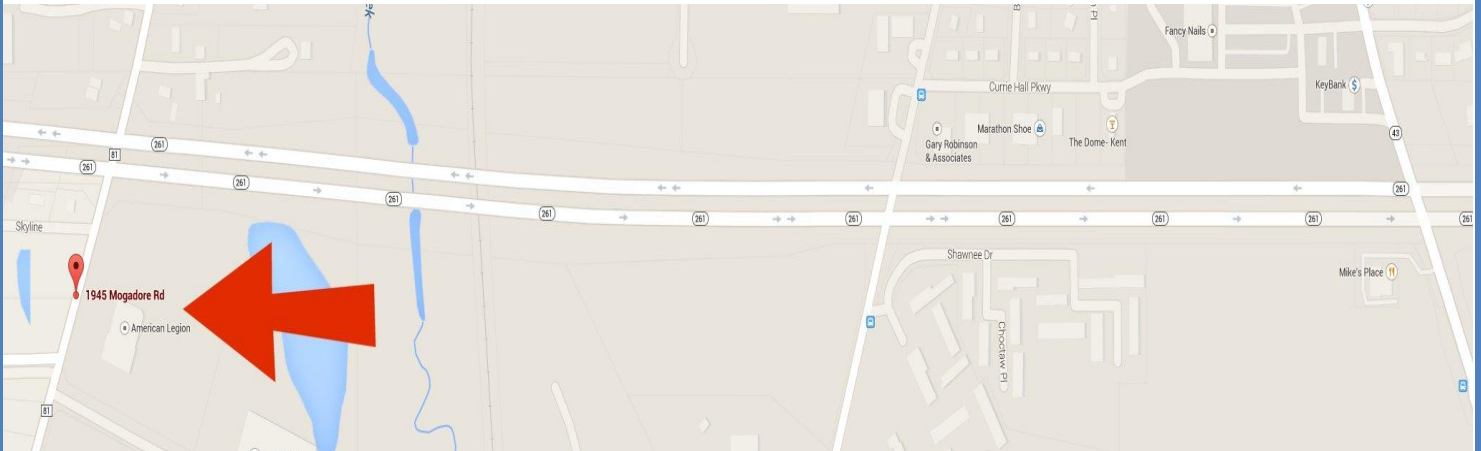


PCARS Meetings

The Portage County Amateur Radio Service (PCARS) in-person meetings are held the **2nd Monday** of each month and start at 7:00 pm.



*The meetings are held at The American Legion, Post 496
1945 Mogadore Road - in Kent. (Just South of Route 261)*



The American Legion Post 496 is located on the southeast corner of State Route 261 and Mogadore Rd. The driveway is on the south side of the building and as you enter you will pass through a parking lot on the south side of the building. Please do not park in this lot but instead continue on to the parking lot on the east side of the building which is the near the rear entrance into the Post 'Canteen'. As you enter the post from this entrance you'll see a bar to the left and a dining area to the right. The meeting area we'll be in is on the right, to the rear of the dining area.



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



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

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



PCARS VE Testing Information & News

Tom, KB8UUZ
PCARS VE Team Liaison



Future Dates in 2024:
February 3rd, April 6th, June 1st, August 3rd, October 5th, December 7th
***** Check the website for the latest information *****

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

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

QUICK FACTS

- **Yes**, PCARS VE test Sessions are held at the club site in Ravenna starting at 10 am - see schedule.
- **Walk-Ins are accepted**. Would appreciate an email to KB8UUZ@GMAIL.COM if you plan on attending.
- You **MUST** have an **FRN Number** (SSNs no longer accepted)
- You **MUST** have a **valid e-mail address** for the FCC to be able to contact you.
- **Picture ID required**
- **Original and Copy of your valid FCC license** and originals of any applicable CSCE
- **Taking Technician Test?** - You **MUST** apply for your **FRN** and get it prior to testing
- **VE fee is \$15** - Cash or Check payable to "ARRL-VEC"
- **FCC License Fee \$35** - payable after FCC sends you a link. **DOES NOT APPLY to upgrades**
- **17 years old or younger? VE Fee is \$5** per the ARRL reduced CE fee Youth Program
- **17 years old or younger? ARRL will reimburse you the \$35 FCC Fee**

Okay - now all the Details:

- If you are sick, have a cough, a high temperature or have been exposed to COVID-19 or someone that has been infected - please, *do not* come to the club site. *Use of masks is optional.*
- No food or snacks allowed.
- Ensure you have the following:
 - A picture ID such as a valid Driver's License, State ID, School ID, or US Passport.
 - If you are under 16 years of age, a parent or guardian must be able to vouch for you and you need a copy of your birth certificate (you do not have to give us a copy, we just have to see and verify).
 - **If you are upgrading to General or Extra - You MUST bring your original valid amateur radio license and a copy of your valid amateur radio license to turn in with your Form 605.**
 - Bring your own pencils and pens.
 - Calculators are okay to use (if you need one) as long as the memories are cleared.
 - NO cell Phones allowed

Any questions? Contact KB8UUZ@gmail.com



Additional Information - What to Bring to the Testing Session

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

These documents may include:

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

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

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

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

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

Email Addresses REQUIRED

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



FCC - \$35 Amateur Application Fee

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

VECs and Volunteer Examiner (VE) teams will not collect the \$35 fee at exam sessions. New applicants will pay the \$15 exam session fee to the ARRL VE team as usual and pay the \$35 application fee directly to the FCC by using the CORES FRN Registration system.

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

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

Youth Licensing Grant Program

The ARRL Youth Licensing Grant Program, in effect since April 19, 2022, will cover the one-time \$35 application fee for **new** amateur radio license candidates **17 years old or younger** for tests administered under the ARRL Volunteer Examiner Coordinator (VEC) program.

The \$35 Federal Communications Commission (FCC) application fee will be reimbursed after the ARRL VEC receives the completed reimbursement form and after the new license has been issued. The reimbursement check will be mailed to the fee payer. Also, candidates 17 years old or younger would pay a reduced exam session fee of \$5 to the ARRL VEC team at the time of the exam. The \$5 fee is for all candidates 17 years old or younger, regardless of the exam level taken. Proof of under 18 status is required.

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

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The Federal Communications Commission (FCC) retired the [Legacy version](#) of its **Commission REgistration System (CORES)** on July 15, 2022. CORES is the FCC's public-facing database that enables and tracks certain types of FCC and FCC applicant actions, including amateur radio applications and licenses. Its implementation has enabled routine amateur applications and licenses to be issued overnight instead of over weeks, as was the case with earlier methods. The [updated version of CORES](#) is now available. (<https://apps.fcc.gov/cores/userLogin.do>)

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INFORMATION ABOUT THE FCC APPLICATION FEE AND VEC FILED APPLICATIONS

The FCC application fee was implemented on April 19, 2022. Here's what we know so far...

1. MAKE SURE EXAMINEES UNDERSTAND THEY MUST PAY WITHIN 10 DAYS.

Examinees do NOT have to wait for the email from the FCC to pay the fee. As soon as an the application file number is issued by the FCC, they can pay by logging into the CORES Payer FRN System (easier to use but only temporarily available) or the CORES FRN Registration system (CORES - Login).

Application File Number search using an FRN: FCC Application File Number Search

CORES payment system background information and instructions: Information.

CORES step-by-step payment instructions: FCC Application Fee Instructions

2. The FCC help center stated there is a known issue with individuals paying the \$35 application fee via a smart phone or tablet. This is not a new issue and they haven't been able to help troubleshoot the issue at the support center. Encourage candidates to login and pay the FCC application fee from a computer.

3. Examinees should NOT amend any applications that a VEC submits on their behalf, especially NEW license applications.

Amending VEC filed applications will cause the application to be dismissed without action in the FCC system and potentially require the applicant to pay another \$35 fee. If there is a minor mistake on the application, either call us and we can correct and resubmit the application, or the individual can pay the fee, be issued the call sign, and then log back in and make corrections.

4. Individuals should review their application BEFORE paying the fee. If there is a major error on the application, such as the licensee's name or license class earned is incorrect, or the answer to the felony question is wrong, DO NOT PAY the fee. Call the VEC (ARRL) immediately.

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

PCARS
ARRL Volunteer Examiners:
serving the Amateur Radio community
First Saturdays 10:00 am
at the club site in Ravenna
February, April, June, August,
October, December

Printing Your FCC License

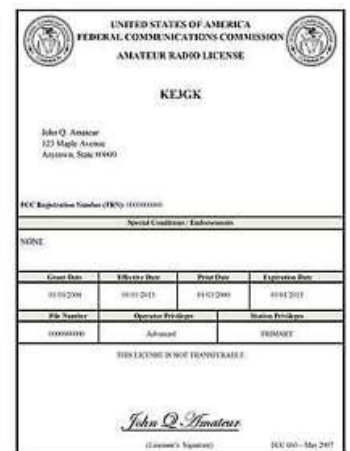
Print an Official or Unofficial Copy of Your Amateur Radio License

Information provided by Anthony Luscre, K8ZT

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

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

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



Portage County Amateur Radio Service, Inc.



PCARS - K8BF

19th Annual

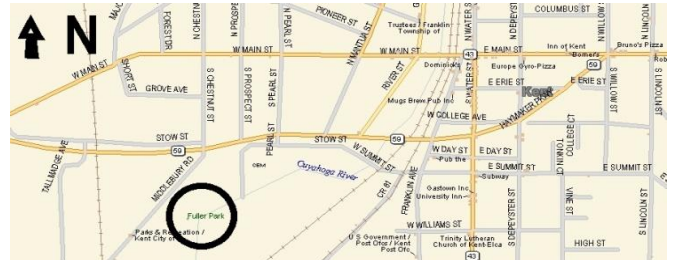
"Freeze Your Acorns Off" (FYAO) Special Event Station



*Where: Fred Fuller Park - 497 Middlebury Rd., Kent, Oh
at the Roy Smith Shelter House*

*When: Saturday - March 2, 2024
Set up: 9 am*

Operating Time: 10 am - 3 pm ET



We will be active on CW & Phone in the General areas of the 6, 10, 15, 20, 40 and 80 meter bands (Repeater & Echolink on the K8BF echo link node for a certificate) and anything else we can get working. Club Call Sign **K8BF** for a certificate. Other participating stations will be using their own callsign/FYAO, or calling "CQ FYAO" (only stations at the Freeze Your Acorns Off event should use the /FYAO designator). Yes, we'll be braving the cold weather of North Eastern Ohio to set up QRP stations using portable power and antennas.

Uniform of the day: Aloha or Hawaiian Shirts

So, from the comfort of your warm radio shack - give us a contact while we're out freezing. We'll need all the contacts we can make to help keep us warm. Your support will be very much appreciated!



QSL for Card and Certificate via QRZ.com address for K8BF



Check PCARS out on the web at: www.portcars.org



Questions? Contact Chuck, W8PT at chuckw8pt@gmail.com



"The Night Before Christmas"

Ham Radio-style

John, WG8X

Twas the night before Christmas, when all through the town,
the snowstorm was raging, the phone lines were down;
The wind it did howl, the tree limbs did crack,
I hope that St. Nick isn't forced to turn back.

The wife making cookies, the kids making noise,
while away in the shack, by my rig I was poised.
The finals were glowing, the mike gain was set,
I was chasing DX to see what I could get.

The bands were all empty, the frequencies clear,
except one lone station that sounded quite near.
He was calling CQ and my interest did pique,
When he ended transmission with the words, "Old St. Nick".

I answered back quickly, I used great dispatch,
If this were St. Nicholas, good God, what a catch!
We exchanged information, it was really quite graphic,
then he came back and said, "I've emergency traffic!"

His reindeer were tired, his elves in a grump,
If he didn't land soon, then his sleigh he would dump.
I thought very carefully, I thought very hard,
Then I gave him directions to my snow covered yard.

As he flew past my window, his hair like a mane,
He reined in his chargers and called them by name:
"Whoa, Anode! Whoa, Cathode! Whoa, Zener! Whoa, Diode!
Stop, Heater! Stop, Grid leak! Stop, Bias! Stop, Triode!"

You're flying too low! You're flying too fast!
Look out, you dumb reindeer, his antenna mast!"
So into the backyard the reindeer did drop,
St. Nick, the elves, and the sleigh went kerplod!

Then at the back door, I heard this loud knocking,
"Open up in there, or I won't fill your stocking!"

As I turned off the light and was leaving the shack,
into the house Saint Nicholas came from the back--

His two-meter rig held to his hip with a strap,
"Hams do it in the shack" on the front of his cap.

The sack that he carried made his aged brow furrow,
and he handed me a card that read,
"QSL Via Bureau".

His clothes were all sooty, from his shoes to his vest;
I felt like a novice taking his test.
His fingers were calloused and from what I could tell,
this came from a straight key that I ll bet he used well.

I offered him coffee, I offered him smokes,
I tried easing the tension by telling ham jokes.
Then he nodded his head and raised up his thumb,
He smiled like an Elmer, did I ever feel dumb.

He grabbed up his sack and went straight for the tree,
and placed in it a large present for me.
When he finished his work, he stood up, took a bow,
then out the back door to his team he did plow.

But I heard him exclaim as he flew o'er the land,
"Beware the FCC, friend, we were both out of band!"



WB8LCD, KB8UUZ, KB8VJL, W8KNO, KB8SZI, KD8EPF, N8KBX, W8PT, KB8TUY, N4IT, WB9LBI, KC8FQV, WB8OVQ, WD8BIW, W8RJG, K8IV, KC8LJY, WB2DFC, N8XTH, K8QF, N8ATV, N8GIE, KD8FME, WX4QZ, N8QE, K8CAV, WA8AR, NX8G, KD8DFL, NT8K, K8AAB, W8HFY, K3GP, KD8JRE, WA8CCU, KC8YYS, KD8VT, N8HUC, NR8W, G0BPS, KD8LIR, KB8UHN, W8CDL, WG8X, K8NYM, KD8MLE, KW8KW, KD8CGH, KA8TOA, KD8OBA, W8RID, KD8PBL, KD8ERY, W8EZT, N8AMY, KD8SIZ, W8CYN, KD8SOP, KD8WZS, K8MSH, KA8OAT, AC8NT, KB8VJQ, KD8WCK, W8IFM, KD8BBT, AC8QG, N8BI, N8QZ, N8SY, KD8ZSH, N8GPS, N6JRL, KC8RKD, KE8BFA, K8KSU, K3LR, K1ZZ, WA8SAJ, N1CJW, DENISE, KD8WBC, W8GWI, KE8EGG, KE8EGF, AC8XO, AB8YK, WT8J, N8NB, WA8UWV, W8AHC, WD8ICX, KB8ZWT, W8NET, KC8JC, N8WCP, N8FUM, KD8JN, K8HTB, K8IG, KE8KCJ, AD8FQ, N08D, KE8KBJ, KC8YSU, W3JL, WB2MGP, WA8YFL, W8CI, KE8LWL, KE8LWM, KE8LWO, AD8IR, K8PJW, KE8VS, KE8MKY, KE8MXR, KE8NJA, KC8TUE, K8DER, K8NYL, KE8JUJ, K8ZGW, KD8BXY, KN4GWY, AG8GM, K8JJM, W8PJW, W8DMP, W8EC, KE8NNC, WA8LRW, K8TTX, W8JJW, KE8QEP, W8DMH, WD8DAU, KE8ARB, K5JMS, W3MLS, W8GPN, KE8REE, KE8REF, N8WLE, WB2RPW, K3EMB, KE8IMR, KD8LDG, KE8TEJ, WA8EFK, KE8SMS, KA8RXW, KE8TFJ, K8FF, ND8L, KE8ULB, KE8UKK, N8NH, KE8FNS, K8LY, W8MET, N8LRS, W8HFZ, W2THU, N8SKN, WD8PME, KB3OQV, KB3GXB, MCARRON, KE8ELR, AC8RH, W8KFW, K8HGX, W8YIH, W8LDH, KE8WVV, KP4VZ, WP4PLR, N8XAD, KE8UBC, W8GU, AJ8Q, N8ND, K8NU, KD8GHB, KE8TQR, KE8YZD, KE8BWA

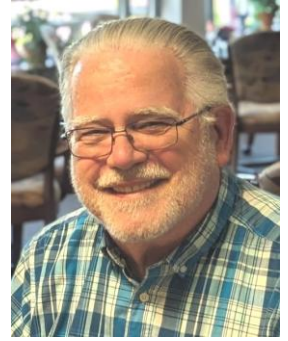
From All of Us to All of You
 A Very Merry Christmas
 and a Happy New Year



Thanks & 73



Parky, KB8UUZ
PCARS Newsletter Editor



Starting with the January 2024 issue of The RADIOGRAM, Jim “JC” Wilson, KC8JC will be taking over the task as PCARS Newsletter Editor. I ask that ALL of you support JC and send your inputs to him. He will need encouragement in taking on the editing tasks and I’m sure with all of our help, he will do an outstanding job presenting the activities and information about PCARS to our members and others..

All of our members (and others) look forward to getting this newsletter every month, so keep sending those inputs! I’m sure you know PCARS is known as the **BIG FUN** amateur radio club. So, chip-in and send your article in to keep this newsletter great during 2024 and beyond.

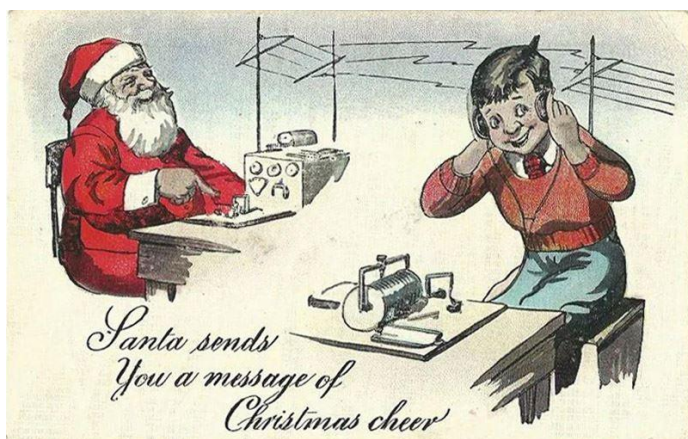
Thank You to all that helped me over the past 18 years by sending in the articles and photographs. It has been a LOT of fun. I hope you have enjoyed the journey with me to highlight all the activities and fun over the years here at the Big Fun club - PCARS. I’ll still be around and submitting material for the newsletter.

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

WD8BIW, KB8UUZ, N8QG, AC8NT, KA8TOA, K8CAV, WA8AR, WG8X, W8NET, N8QE, W8PT, KD8WCK, AD8IR, WB2MGP, K8ZT, the ARRL and the World-Wide Web

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

Just when you were figuring it was getting safe out there.... COVID is still active and some of our members have recently caught the COVID bug. PLEASE, get your COVID shot booster. You may still catch it, but with that booster, it may just be a mild case and you’ll be back again soon. Don’t forget your Flu shot or the RSV shot as well. We want to see you around for a long time to come. Please, be safe out there.



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

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

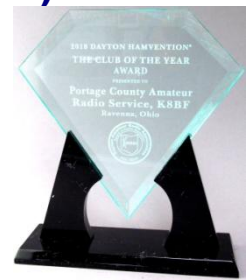


PCARS meets the second Monday of each month at the **Kent American Legion Post 496**,
1945 Mogadore Rd. - just South of Rt. 261 - Enter the rear of the building for the meeting room.

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



~ 2023 Officers ~	2023 PCARS Appointments & Committees	
President - Nick Wagner - AC8QG Vice President - Jim Wilson - AC8NT Treasurer - Greg Ash - KA8TOA 1 Year Trustee - Tom Parkinson - KB8UUZ 2 Year Trustee - Chuck Patellis - W8PT 3 Year Trustee - Mike Ryan - KB8TUY Past President - Tom Sly - WB8LCD	ARRL Awards - DXCC	W8KNO Joe Wehner
	Club Site Manager/Liaison	K8CAV Rick Kruis
	Contest Coordinator	W8PT Chuck Patellis
	EchoLink	AC8NT Jim Wilson
	Field Day Chairman, 2023	WA8AR Tony Romito
	FYAO Chairman	W8PT Chuck Patellis
	K8BF Callsign Trustee	N8QE Bob Hajdak
	K8BF QSL Manager	N8QE Bob Hajdak
	Membership Chairman	
	Net Control Coordinator	KA8TOA Greg Ash
	Newsletter Editor	KB8UUZ Tom Parkinson
	OSPOTA Chairman	KB8UUZ Tom Parkinson
	PCARS Photographer	AD8IR Agnes Wagner
	Public Information Officer	
~ Meetings & Net ~	Secretary	KE8EGF Paul Hyland
2nd Monday of each month. 7pm Thursday night Club Net at 8 pm on 146.895	Social Media	N8WCP Mike Szabo
	Tech, Gen & Extra Class Mgr.	AC8NT Jim Wilson
	Volunteer Examiner Liaison	KB8UUZ Tom Parkinson
	Webmaster	KP4VZ Mike Gonzalez

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

THE RADIOGRAM

PCARS Incorporated
Nov. 1, 2005

First Meeting
Nov. 14, 2005



ARRL Affiliation
April 20, 2006



Special Service Club
March 22, 2010

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