



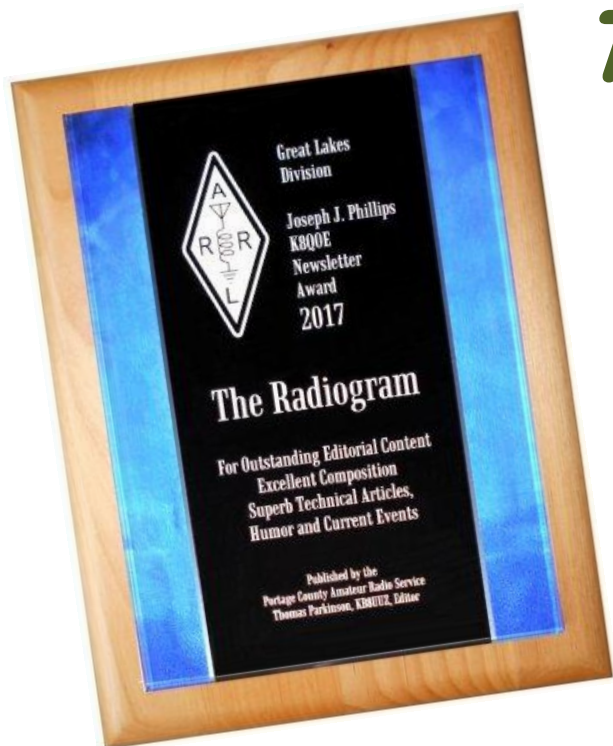
The **RADIOGRAM**

When All Else Fails ~ Amateur Radio Works

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

November 2017 - Volume 12 Number 11

263.87 DEH



The RADIOGRAM Wins the ARRL Great Lakes Division Newsletter Award

***Center of
Hope
Donation
Night at
the November Meeting***

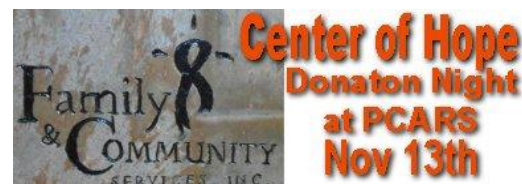
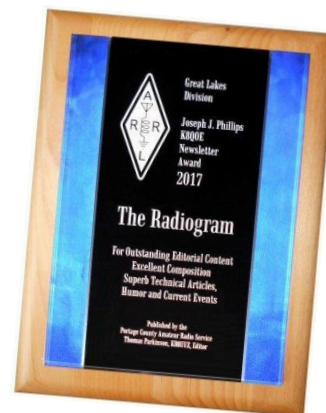


PCARS K8BF

The Club that puts the FUN in Ham Radio!



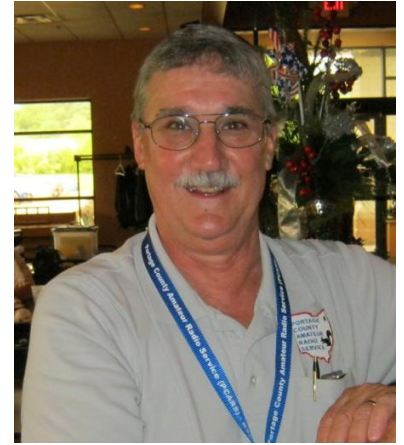
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Next Month in The RADIOGRAM: *OSPOTA 2017 Contest Results*
PCARS Election Results - More Fun With Ham Radio

From the President

Rick, K8CAV
PCARS President



The most important meeting of the year for PCARS is coming up this month. On November 13th PCARS will be holding annual elections for officers and trustees. The President, Vice President, Treasurer, and Three-Year Trustee will all be nominated and voted upon. Every one of these offices is very important to PCARS continuing to thrive as the active and enjoyable club it is for you, and I just can't stress strongly enough how important it is for you to be at this meeting. We need members who are committed to PCARS to run for offices up for election. And we most definitely need you there to vote on those members who are running so that you have a voice in where you want to see PCARS going.

This month is also very important because it's the month we do our fundraising for The Center of Hope. The Center of Hope played a very important role when PCARS was first formed by generously letting us use its hall for meetings, classes, and club projects. Without having a place to meet like the Center of Hope, it would have been much more difficult to get PCARS off the ground. More importantly, the Center of Hope is a beacon for caring for those in our community less fortunate than themselves. They provide hot meals, groceries, and many other services to those in need and this is our opportunity to give back to an organization that cared enough about us to help our organization out in the very beginning. It's also a wonderful opportunity for us to provide the means to help out our neighbors who need the care we can provide by being generous with our donations. The club's share of the monthly 50-50 raffle (and there will be lots of really nice prizes!) will be donated to The Center of Hope, along with your direct donations to them. PCARS members have always been very generous and I truly hope that this year we'll continue that tradition.

On Saturday October 14th, the PCARS club site played host for an open house of the club site and club picnic. The weather was great, our barbeque chef served up some great burgers and brauts, and everyone got a chance to see what the PCARS club site has become. From a well-appointed radio room with four operating positions and all the goodies to operate phone, CW and digital, to a very well-equipped lab with test equipment and soldering stations, to the social room and class and project area, everyone was treated to probably the best amateur radio club site in northern Ohio. We had some new faces in addition to many current members and it was a very enjoyable day for all who attended. The only thing we still need is for you to come out and use it! We have several annual club contests, monthly projects, and classes that take place and we have get-on-the-air days for you to come out and operate. The lab is available for you to bring in your radios and projects to work on. And it's a great place to gather with fellow PCARS members and swap lies and have a good time.

None of this happened by accident and without a lot of time and hard work. There were a lot of members who really worked hard to make the PCARS club site what it is. Jim, AC8NT has spent a tremendous amount of time and work to take the vision of what our club site might be and turn it into reality. His leadership drew all of the individual parts of the PCARS club site into one coherent plan and, though it took some time to execute, resulted in what we have today. On behalf of all of you I want to thank Jim for everything he's done in making our club site a class facility.

Every time we conduct a class, or have a contest, or a build day, or maintenance day I see many of you out there participating and I can tell you without reservation that this, more than anything is what makes PCARS an incredibly enjoyable amateur radio club to belong to. Thanks to every one of you who give your time to share with the rest of us.

From the Vice President

Jim, AC8NT
PCARS Vice President



My Shack

For my part, October was all about getting my equipment better organized. I added a headset controller, better dipole tuner and an automated antenna analyzer that I designed for my shack. Had I seen the analyzer in the November QST, I might have modified that design instead of starting from scratch. I have had a lot of fun using JT65 and FT8. FT8 is becoming very popular especially on 6 meters. 6 meter FT-8 has forced me to design a new dipole for installation in the attic. I know we are all trying to get all the shacks in order before the snow flies. It will be close as it is every year.

Open House

I want to start by thanking all of you that helped at our club cleanup day. The turnout was outstanding and the club looks great. We followed the cleanup with an open house and picnic. We had a good turnout, especially considering the number of non-members that showed up for a look. I think we will be seeing a few new members added to the rolls. It was great showing everyone the lab, new antennas, fixed up operations room and our social room. Mick did a great job as club chef. The burgers and brats were tasty. As we continue to tell everyone, our club site is a great asset. I encourage everyone to invite any of their ham or non-ham friends to visit the club. Ham radio is a great hobby and our club provides great resources.

Presentation to Canton Club

Enjoyed giving a presentation on JT65 and FT8 at the Canton Amateur Radio Club at their October monthly meeting. As with most clubs, there is a lot of interest in the digital modes. Lots of questions were asked about how to get started and how the modes work. They have a great club were great hosts. Thanks to Kirk Baxter, W0KGB and Dale Lamm, NX8J for the invitation.

Extra Class/Electronics Class

We have reached the class limit of 24 students. The interest has been very high. It is now time for me to order parts, make up kits and prepare the 11 classes. All kits and presentation materials will be ready by the end of November. A couple of the larger projects will be completed during Saturday build days held during the 11 weeks. These include the building of a dipole antenna with balun and the building of an arduino project. Don't worry; the Arduino project will not require programming. The Arduino project will involve construction of the electronics system and the loading a developed program. I am considering the antenna analyzer that was shown in the November QST. It will depend on parts availability. All the kits accept the Arduino kit will cost less than \$20 for those who wish to buy the materials. Kits that are unsold will be held by the club for future projects. Classes start Wednesday, January 10 and will run for 11 consecutive Wednesdays. Those participants that need an Extra Class ARRL License book let me know. Unlike previous classes, many of the class members already have their Extra license. A QST will be sent to all participants the first of November with all the details including the cost of each of the kits. I am looking forward to this class.

Build Days and GOTA Days

We will be scheduling at least 6 build days for next year. Two will be part of the Extra Class. We are also planning at least one Saturday per month when club members can use the club site for operations. This will be on top of the contest activities. The schedule for these builds and GOTA dates will be confirmed at the November board meeting. Remember that club members can run any of the equipment or use the lab during any of these events. Also, any member can attend any of the build days including those that are part of the Extra Class/Electronics Class.

Schedule of Events

On the calendar for upcoming meetings and activities are:

- November 1st - VE Test Session at the club site at 7 pm - open for all, walk-ins welcome
- November 13th - PCARS Meeting - 7 pm - **ELECTIONS** - 50/50 Raffle for Center of Hope
- November 14th - PCARS 12th Birthday

Special Interest Groups (SIGs) - Every Month at
the Club Site in Ravenna - 7 pm



- First Tuesday - **Digital** - Moderator: K8CAV
Second Tuesday - **QRP/CW** - Moderator: KB8AMZ
Third Tuesday - **Antenna** - Moderator: WA8AR
Fourth Tuesday - **DX & Contest** - Moderator: W8PT
Fifth Tuesday - **Linux for Hams** - Moderator: KB8AMZ
Fourth Thursday - **Net Night at the club site - 6:30 pm**



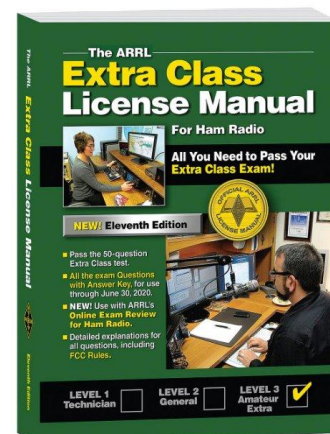
ATTENTION: Net Night at the Club Site will be CANCELLED for November and December due to Thanksgiving and the Christmas / New Year holidays. Please enjoy the time with your families and we will re-start Net Night at the Club Site in January of 2018.

Extra Class/General Radio Electronics class - January

We will be starting an Extra Class/General Radio Electronics class in January. This will be different from our normal format. In the past we have focused on our students learning the theory and passing the test. This class will include laboratories where students will put their knowledge to work by building test circuits and actual equipment. Labs will include learning about test instruments, designing amplifiers, using integrated circuits, building antenna systems and even a using microcontrollers in ham radio.

It should be a lot of fun and a great learning experience. We will of course cover all the material required for the Extra Class, but anyone interested in electronics can attend.

This class will last about 11 weeks. **Because this course uses kits, it is very important we get a good idea how many will be attending.** We also need some lead time to make sure all the kits are ready.



So, if you are interested please send an email to AC8NT@portcars.org as soon as possible. Watch the club web site and your e-mail box (QST messages)

EDITOR'S NOTE. At this point the class may be full. Jim had to get parts on order for those of you that signed up. If you missed signing up, you can still e-mail Jim, AC8NT and he can keep you on a stand-by list.

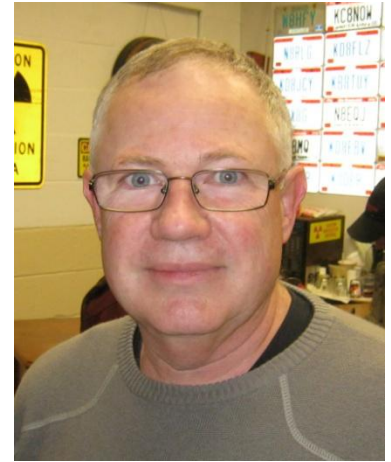


Center of Hope Donations



**Center of Hope
Donation Night
at PCARS
Nov 13th**

Tom, WB8LCD
PCARS Secretary



November is a very important month for PCARS, and, it's a very important month for you to show up at our meeting!

Three items come to mind as to why:

- 1- It's the perfect time to pay your dues for the coming year! (Look for the note elsewhere in this issue regarding your dues payments)
- 2 - It's our annual election of officers, and
- 3 - It's our annual 50/50 to benefit the Center of Hope in Ravenna.

You know why you need to pay your dues, you know why our election of officers is so important to the continued success of PCARS! But, I want to talk about why, our annual donation to the Center of Hope is so important, not only to the Center of Hope, but to the Portage County Community at large, and specifically to PCARS.

In the first year of PCARS existence, ODOT (Ohio Department Of Transportation) had planned to vacate their facility at 705 Oakwood St. PCARS founding member Russ Anderson, KB8DPN was a radio tech for ODOT. (His office is where the PCARS VHF/UHF station is currently located in the clubhouse). Russ came to me (as the current PCARS President) and explained that he was aware that the whole facility was about to be bulldozed, at a cost of about \$600,000 to the taxpayers of Ohio. He also knew that the property could be purchased for \$1. That would result in a huge savings to the taxpayers, and a really cheap real estate deal for some lucky purchaser. Being in our first year of existence, it was not prudent for PCARS to take on such a large responsibility. There would still be property taxes to pay and most of the buildings were in a state of disrepair. Even though it could be purchased for \$1, it would still be too much of a financial burden for a new amateur radio club to be saddled with!

Russ persisted. Next he approached Jim Aylward (SK), KC8PD regarding the idea. Jim also indicated that it would not be something PCARS could take on, but suggested Family & Community Services (F&CS) take a look at the possibility of the taking on the project. Ultimately they did, and you see them occupying the facility themselves, as well as renting space to other organizations and businesses. PCARS is also there! Because of Jim's serving on both the boards of F&CS and PCARS, Jim was able to work out a lease for PCARS, in perpetuity, for rent that is essentially a "token" payment to F&CS. Over the past 10 years the building has morphed from an unusable shell of a building, to the space we now occupy. It's been a process for PCARS that has resulted in a very nice place for us to call "home" and it is a luxury that many clubs don't have. We are very, very fortunate.

In the early years of PCARS, before our own space was even inhabitable, many PCARS functions and events were held at the old Center of Hope on W. Main St. in Ravenna. (The Center of Hope is one of the programs of F&CS). We even had a few of our clubs monthly meetings there. Early on we decided that in November, all of the clubs portion of the 50/50 raffle would be donated to the Center of Hope as a "thank you" for the assistance they had given PCARS for the use of the space, and later on for the generous opportunity to

have space in the former ODOT facility. Our donation has grown from a few hundred dollars to \$4000 last year! Probably one of the largest single donations that The Center of Hope receives over the course of a year.

We want to continue that upward trend as long as we can! We have an outstanding club facility that we can all be proud of, and that we should all be thankful for. There are 3 ways you can help us. First, come to the meeting and buy LOTS of 50/50 tickets. The half of the 50/50 that would normally go to PCARS is given to the Center of Hope donation. Second, make a personal donation to the Center of Hope. I'm asking you to dig deep on this, give what you can to help someone in your community have a better holiday season this year. Lastly, don't be afraid to ask your friends, neighbors, employers, employees, and anyone else you come in contact with to help you support this very worthwhile endeavor. They can say "yes" or they can say "no", but if you don't ask them, there's no way to get to "yes", and that doesn't help anyone!

Here are a few things you should know about the Center of Hope:

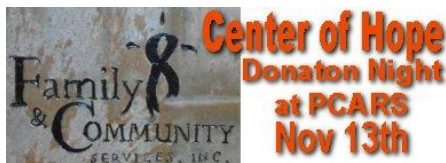
- The Amelia DiGirolamo Center of Hope is dedicated to enhancing the nutrition of low-income people in Portage County where local food pantries are not present. Hot meals are offered at no cost five days a week and are typically served to between 75-100 individuals each day. Groceries are available monthly through the Christian Cupboard. Opportunities for socialization, cooking classes and referral services are also offered.
- Out of every \$1.00 donated, 94 cents goes toward direct service to their clientele. That puts the Center of Hope at the very top of the scale for percentage of funds that actually reach their intended target! There are over 100,000 individuals who receive service through the Center of Hope each year.

We are the Portage County Amateur Radio Service. This is one more way that our community benefits from our organization.

Please bring all of your donations, including those you collect from others, to the meeting with you on Monday, November 13th.**

When making your donation, please make checks payable to 'The Center of Hope'. By doing this PCARS does not need to report your donations as income. You will receive a charitable donation receipt directly from the Center of Hope. (If you collect any donations from friends, relatives, etc., the same applies to them) All donations are aggregated to the PCARS donation, even though the individual donor is given credit for it.

**** If you are not able to make the PCARS meeting but you would still like to help us support the Center of Hope, please mail your check to me and I'll make sure it's included in the PCARS donation:**



Tom Sly, WB8LCD, PCARS Secretary
1480 Lake Martin Dr.
Kent, OH 44240



*****Special Charitable Trivia Question:**

“If you can't afford a quarter, then you ought to give a dime. If everybody gave, then we could save the “ your answer here”

Email your answer to me: wb8lcd@portcars.org

Correct answer will be given at the November meeting and in next month's newsletter!

From the Ohio Section Manager

Scott, N8SY
Ohio ARRL Section Manager



Hey Gang. Time is really flying by quickly for sure. The grass is still growing some, although it has slowed down some for the fall.

Now with that in mind I have a little story to tell all of you. As some of you know I live in a very small village, but our properties are more than average in size. I have about three quarters of an acre and my neighbor has about the same size lot as I do. So, as you can imagine, most of us on good weather days are out mowing the lawn or raking leaves.



Not my neighbor! He's got the most advance mower in the world. It mows the lawn for him! Yes, that's right, he has a robot mowing the lawn. It's actually a cute little bugger, but it is the epitome of laziness for sure. Now when they went to install this little robot they laid a small wire down like they do for those invisible fences for dogs. So, being the curious one in the neighborhood I went over to the guy laying the wire underground and started asking some basic questions about it. It seems that this little device runs until it finds the wire and then turns 120 degrees and starts mowing in that direction.

It sounded pretty basic until he told me that it has a GPS tracker built into it, and with that it actually learns where the boundaries are as well as some immovable objects (trees, lawn objects, etc..) and learns not to run into them. That added some interest to this little gadget for sure. But, when he told me that it has some features that allow it to communicate to the outside world I really got interested. It seems that it uses some portion of the UHF spectrum to communicate to a control panel where he can select various options for this critter to do. Now, with my ham station being somewhat close (within 30 meters) I asked if I would interfere with this robot. I was told that it was compliant with Part 15 and my ham radios wouldn't affect it. So, all is good... Right? Now, you're wondering how this is related to Amateur Radio, where here goes as Paul Harvey used to say... "The rest of the story".

I soon learned that what some folks consider compliant isn't necessarily what others think it is. I accidentally discovered one day that the robot doesn't seem to like Digital Mobile Radio (DMR) very well. In fact, every time I key up my hand-held, this little gadget it goes into a tizzy. A couple of times it started going round and round and round without any explanation and my neighbor had to go out and shut it down and reset the entire program on it. Another time I actually got it to crash into a tree! The little bugger just kept spinning its wheels and it finally dug a hole deep enough that it couldn't turn around anymore and died right there.



Now, so far I haven't really told anyone that I can actually make the crazy thing do what it isn't supposed to do. I have a screened-in gazebo in my back yard where we have a very comfortable yard sofa, so on really nice days I go into the gazebo with my DMR handheld radio and have some fun!!

So far, the technician has been out 3 times and still can't figure out why it is doing these strange things.

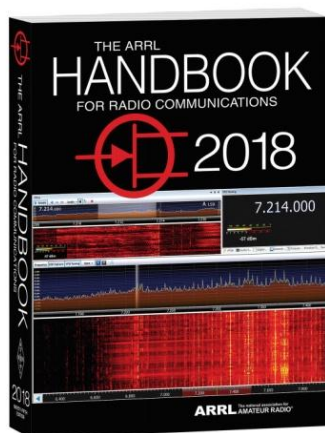
Oh, I did forget to mention that this little gadget even has headlights on it! Now, if you can imagine getting up in the middle of the night to go to the bathroom and have a set of headlights coming toward you where you know there's no street, it's frightening! Several times I've had the bejappers scared out of me by this little bugger.

So, with all of this said, you can now see, being "compliant" may or may not necessarily keep strange things from happening to your expensive toys.

Will I ever tell my neighbor that I can affect his lazy man's mowing machine? Probably, but not until I've had some more fun with it.

I had the opportunity to stop by the NEW Universal Radio in Worthington just this past Thursday. No, they weren't open for business yet, but they did give me the grand tour of where everything will be when the expected time comes to open for business. And, when is that you ask? Well I was told to let you all know that they are doing their very best to open this Monday! So, go and take a look at the new digs! I think you'll like what you see.

They are now located at 651-B Lakeview Plaza Boulevard in Worthington. That's really close to the Polaris Mall. Now, if your honey wants to go shopping, you can drive her over to the mall and then you can go shopping at your candy store too! Wow, it's the best thing since sliced bread!



Have you registered for the "Handbook Giveaway" drawing for this month yet? If you haven't, go to: <http://arrl-ohio.org/handbook.html> and get registered. You never know, you just may be the next winner!

What's the catch? I want to get everyone checking in to the Ohio Section website as often as possible, and in order to register each month, you have to visit the website often! There's nothing else to it. I pay all expenses, and from time to time, I Give Away more than just a Handbook. And, you'll never know just what months will be those special times that I will have more than just a Handbook to Give Away!!

There's another NEW – one question – questionnaire on the Ohio Section Website! I was really happy to see that almost 27% of you are planning on upgrading your license this next year, Fantastic!!

Now, I want to see just how many of you do regular backups on your computers so that you won't lose any of that valuable information on them. It will only take 2 seconds for you to answer it, and you can see how your answer stacks up with others instantly. Go to: www.arrl-ohio.org and look on the left side of the page. I really do want to hear from you on these questions. And, if you have a question that you'd like to see on our questionnaire, please send it to me!

Are you a member of the ARRL? Have you let your membership lapse? Want more information on how to join, or rejoin? Here's the link: <http://www.arrl.org/membership-levels>. There's even a 90 day FREE trial that you can apply for if you've never been a member.

Got questions about becoming a member or your current membership? Send me an email n8sy@n8sy.com I'll be happy to call or write to you. We can even meet and have coffee if you'd like, and I'll buy!!

I'm sure all of you have heard me say that I'm always available for you, whether you're an ARRL member or not. It's true, and you can feel free to write or call me anytime. If you have any questions, concerns, or would just like to sit and chat awhile over a cup of coffee or something cold to drink, feel free to call or write me (419) 512-4445 or n8sy@n8sy.com

That's going to do it for this month. I sincerely hope that you have enjoyed reading all about what's happening within the Ohio Section Cabinet this month, and that's why we call it a "Journal". I am looking forward to seeing all of you at the many hamfests, club meetings that I attend, or even on the air!



PCARS Patches & Stickers

New 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: Amy, KD8SKL or e-mail her at: KD8SKL@portcars.org



Great Lakes Division Newsletter Award 2017

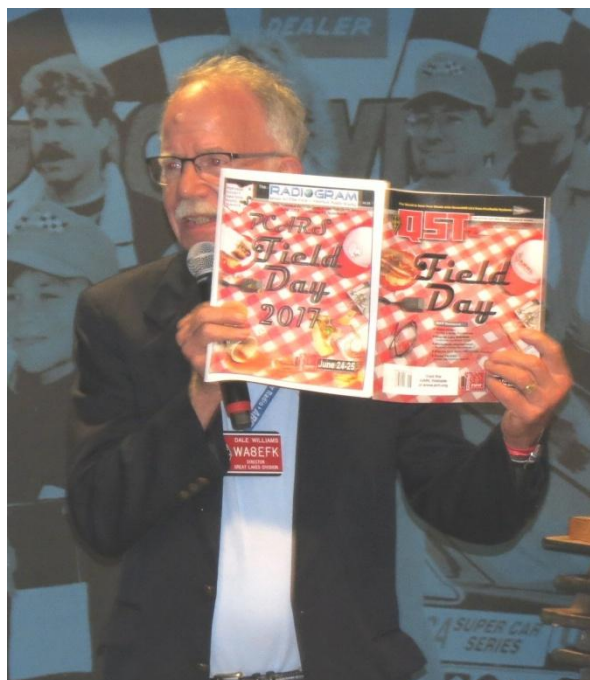
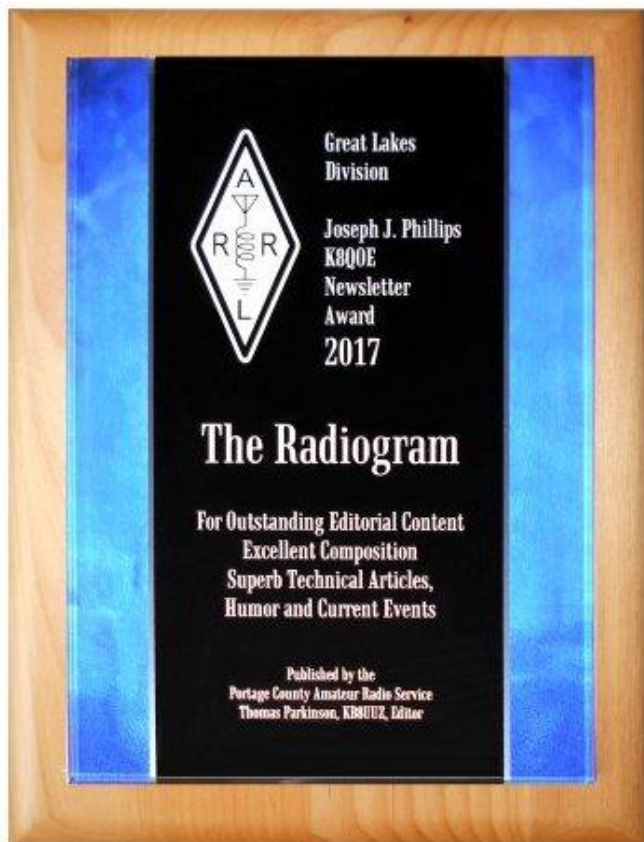
The Great Lakes Division holds a convention every other year. The winning newsletters from the same year's ARRL Sections of Michigan, Ohio and Kentucky and then sent to the ARRL Great Lakes Division to pick the 'best of the best'.

Great Lakes Division



The RADIOGRAM was chosen as the winner of the Great Lakes Division 2017 "Joesph J. Phillips, K8QOE Newsletter Award" recipient. The beautiful plaque was presented to Tom, "Parky" KB8UUZ, the PCARS Newsletter Editor during the banquet at the Great Lakes Division Convention held in Michigan on October 7th.

The plaque is now hanging in the PCARS club site for all to see.



 **GREAT LAKES HAMCON**

OCTOBER 7-8, 2017
"It's gonna be great!"

Great Lakes Division HamCon 2017

Tom, WB8LCD



The first ever “Great Lakes HamCon” was held October 7th & 8th at the Michigan International Speedway located in Brooklyn, Michigan. The GL HamCon was put on by a consortium of Michigan Amateur Radio Clubs, and I have to say, they have done an outstanding job of this convention, which by all rights should morph into a MAJOR Amateur Radio event over the next few events. Michigan International Speedway is an Outstanding venue for such an undertaking. Parky even got to drive his car on the racetrack. (He came in through the back entrance, he had to cross over the track to get into the show area. But as Parky keeps reminding us – he did drive his car on the racetrack!) The infield of the speedway is huge! While the attendance this year was sorta sparse, there is plenty of room for a big fest. The inside conference rooms that were used were certainly ample for the crowd and set up for audio/visual. The banquet facilities located on the top of the grandstand were very nice, and certainly gave you a good view of the track. Did I mention that out on the infield craft beers were available (in the can) for only \$3.00 each? What a GREAT PLACE! The speedway is kinda out in the sticks, so unless you plan on camping there, plan on a little bit of a commute to the track first thing in the morning. Here's another little tip: the longer that early morning commute is for you, the chances are you're in a nicer hotel!

I did see a few PCARS members there, and a few other folks that I know from both OH and MI. Looking through the



program booklet, there was a fantastic line up of speakers for the weekend. I tried to split up my time between both the flea-market and the speakers. That included an hour long presentation given by myself, along with Frank Sole, WB8YHD, on running a successful club program. Unbeknownst to us at the time Rick Roderick, K5UR, ARRL President, sat through our presentation, along with about 25-30 others. I missed Anthony Luscre, K8ZT's QRP presentation because it was given concurrently with ours. The other presentation I

attended was a 2 hour session put on by Carole Perry, WB2MGP. Carole has probably done more over the last 30 years to get youth involved in Ham Radio than any other individual out there. It was a fantastic program that included all 3 of the youth operators that went to Costa Rica this summer with the Youth DX Adventure program (that PCARS has sponsored the last few years). These kids were lit up and excited about Ham Radio! While not a complete list, the speakers also included Carl Luetzelschwab, K9LA, Dan



Romanchick, KB6NU, and several others. There was a really good selection of topics, so there was something for everyone.

At the Saturday night banquet, Rick Roderick, K5UR was the keynote speaker. Rick is very successful in his business life, and extremely successful as a ham. He has definitely spent his time in the chair and on the air! My take away from his very thought provoking presentation was, if ham radio is to survive, it won't be because someone comes up with a great way to get new hams interested, it'll be because each and every one of us does his part to support the hobby and spread the word about ham radio. Most importantly, each of us has the responsibility to make sure that the other guys are having as much fun as we are! I would say that that was a very close parallel to the "unwritten" premise that has made PCARS successful in it's short existence. Also at the banquet there was the "George S. Wilson III, W4OYI Lifetime Achievement Award" award given to our friend, and honorary PCARS member, Jim Weaver, K8JE. It was very nice to see Jim and his wife in attendance. Finally, saving the best for last, the Great Lakes Division newsletter award was presented to Tom (Parky), KB8UUZ, for his outstanding work on, and dedication to, The Radiogram!

No one will ever shake my opinion that PCARS is one outstanding Amateur Radio Club, if not the absolute best one anywhere! But, going to an event like this I came away believing more than ever that Amateur Radio is the Greatest Hobby in the World! And one of the things that makes it so is the number of really smart, articulate, and sharing people that make up our ranks. Expand your circle of friends and experiences beyond Portage County, beyond the Ohio Section, beyond the Great Lakes Division, even beyond just the hams and activities in the United States. You will find a world of friendship, knowledge and experiences that all are willing to share with you on a personal basis. What a Great Hobby!



PCARS VE Test Sessions

Robert, N8RLG
PCARS VE Team Liaison



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.

December 2nd

Plus - November 1st at 7PM at the club site - End of the Technician Class
Walk ins always welcome for any new license or upgrade

What to Bring to the Testing Session

- \$15 is the current test fee. We prefer the exact amount in cash or a check made out to: *ARRL-VEC*
- A government photo ID (**driver's license or state ID card preferred**).
- Your Social Security Number or FCC Federal Registration Number. We are required to submit either your Social Security Number (SSN) or your FCC Federal Registration Number (FRN) with your application. If you are upgrading, your FRN is on your current Amateur Radio license.
- A pen (black ink) and pencil (we can loan you either or both)
- **If you already have an Amateur Radio license: One copy of any current (*unexpired*) amateur radio operator license issued to you.**
- 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 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.



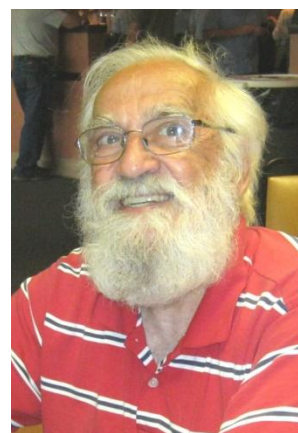
Expired License? Original and copy of your expired Amateur Radio License - you must take and pass Element 2 to re-instate your license.

Paper Chase

Joe, W8KNO

Last month I asked, "How many countries (DXCC Entities) are there in North America?"

This month, let's continue that idea. The question this month is "**How many North American DXCC entities are not countries?**"



A hint, there are eleven.

Editor's Note: Answer is on page 48

PA QSO Party Adventure

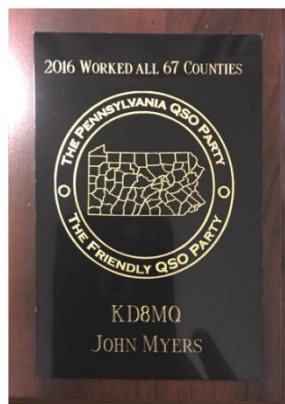
John, KD8MQ

Again this year, a small group from the Alliance area travelled to Jefferson County, PA to operate portable in the PA QSO Party. Besides myself, the group consisted of Ben, KD8KMQ, and John, N8PLA.



Held each October on the 2nd full weekend, the PAQP is always a fun time, since a lot of the participants are more casual operators. It's not unusual to hear a station stop running a frequency to let someone else work a rare one. The competition is not cutthroat by any means.

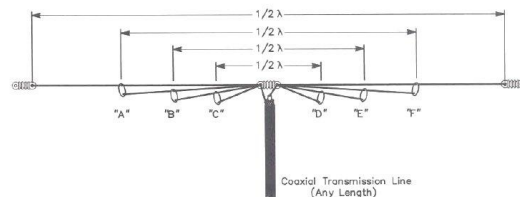
The PA QSO Party is one of, if not the best of the State QSO Parties. This year, things were even more unique, thanks to the organizers choice of Bonus station. A bonus station is named each year for the Party. Each contact with this station is worth 200 pts, and you can work them again on different bands and modes. Since this is the 90th anniversary year for the Frankford Radio Club, they were chosen as the 2017 bonus station. But, rather than have one station on the air, they had four, and they were on the air simultaneously all weekend from several counties! The stations on the air were W3FRC, W3F, W3R, and W3C. If a PAQP participant didn't work a bonus station, then they must have been transmitting into a dummy load! At times, they could even be heard working each other. We logged 36 different contacts with the bonus stations, and I know there were stations who did way better.



Our group didn't get the clean sweep of all PA counties this year, but a lot of ops did. Since there is a plaque available for working all 67 counties, the "sweep" is much sought after by a lot of ops.

In 2016, our group had a challenging situation, antenna-wise. The plans to use a G5RV didn't work as planned, which resulted in some on-the-fly antenna building in order to get on the air. We cannibalized the G5RV, and some other antennas, to build a 80 & 40 Meter Dipole.

In 2017, we went the other way, and expanded on the 40/80 dipole that was built on site for the 2016 PA QSO Party. We arrived at the cabin a couple days early, and took a morning to add 160 & 20 Meter legs. The antenna ultimately became a multi-band dipole with legs for 160/80/40/20. With the use of a tuner, we also managed to tune up on 15 & 10. A 6 Meter dipole was also erected, but results were dismal. A better antenna is planned for that band next year.



This year, our group made 377 contacts, with 107 multipliers; 64 of them were PA Counties. Adding in 7200 points for working the bonus stations 36 times, our final reported score was 52,354. It's a bit lower than last year, but gives us something to shoot for in 2018. Maybe next year, we can get more club involvement. This year, the only PCARS member who found us was Joe, W8KNO.



You can learn more about the PA QSO Party at www.nittany-arc.net/PAQSO.html.

PCARS Membership Renewals

Tom, WB8LCD
PCARS Secretary



It's that time of year that most of you start taking care of your PCARS membership dues for the coming year. I want to ask you: **Please!** Do not just toss cash at any of the officers with the comment "Here it is!" Now don't get me wrong, I love cash. But loose cash is hard to keep track of, especially when receiving a lot from many different people all at the same time.

If you intend to pay your dues, in person, at one of the upcoming meetings, please go to the website (www.portcars.org), download an application form and complete it to include with your dues payment (there is also a copy of this form at the end of the newsletter). It would help if you could either staple, paper clip, or better yet, put it in an envelope with your payment before handing it to us! This is necessary regardless of whether you pay your dues with either cash or a check. By the way, you can also pay your dues on the web site using PAYPAL.

We would especially like to ask you to complete your contact information on the application form: address, home phone number, cell phone number and email address. As many of you have replaced home phone numbers with cell phones, our contact information has become out dated. This is especially true with email addresses. Without correct, current information, you will not receive the monthly newsletter nor the QST email updates that are sent out frequently. If you want to "Opt Out" of receiving our emails just let me know and I will have you removed from the list, but then you will need to download the newsletter from the club site, and check the site regularly to keep up with the current events that are normally distributed via the QST mailings.

Most importantly, I hope that you will renew your membership in PCARS and make a point of being an active member of the club. It just wouldn't be the same without you!

Happy Birthday PCARS Members

PCARS members having a birthday in **November**:

N8SY	Scott Yonally
N8ATV	Jerry Jarze
KD8ZXB	Janet Sheppard
KD8WZS	Zeb Smith
KD8ERY	Sue Larrick
K3LR	Tim Duffy
KB3OQV	Kristen Andrews
K3GP	George Proudfoot
WA8CCU	Al Nagy
AC8PR	Keith Johnson
KD8RHW	Ed Elias

KB8UUZ	Tom Parkinson
KD8UXJ	Eric Shane
W8RID	Bob Davet
K8FEY	Bob Hewett
N8WLE	Nick Rothermel
	Denise Renfroe
WD8PME	Bob Posar
KD8SJB	Richard Kurta
K8STK	Tom Creech
N8BI	Jack Comer
K8BF	PCARS

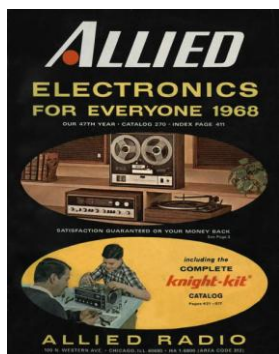


Catalogs Are About Possibilities

Dan, KB6NU



When I was a kid, I used to regularly get catalogs, such as the Allied Radio and Lafayette Radio catalogs and pore over them for hours. Even if I couldn't afford to buy the latest Knight-Kit or Lafayette shortwave radio, I could imagine what it would be like. These catalogs were chock full of possibilities.



I spent many hours poring over the Allied and Lafayette catalogs as a kid. These two are from 1968, when I was 13 years old.

So, you can imagine how I felt when, last Thursday, I found both the Autumn/Winter 2017 DX Engineering catalog and the 2018-2019 Newark Electronics/element14 catalog in my mailbox.

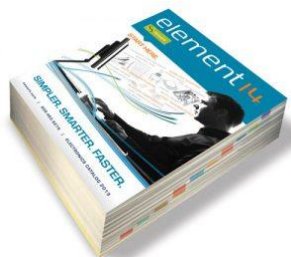
[DX Engineering](#) has really taken the amateur radio world by storm over the last

ten years or so. I probably don't have to tell you about that. If you're an active amateur radio operator, I'm sure that you have heard about - and probably ordered from - DX Engineering.

I think that they did a very smart thing by investing the money in a print catalog. There's something about browsing a print catalog that is just more satisfying than browsing online. DX Engineering has just about everything you need to have fun with amateur radio. The one glaring omission? They still don't carry my study guides!



The [Newark/element14 2018-2019 catalog](#) is a completely different beast. Amateur radio operators are only a small part of Newark/element14's market, but one nonetheless. They have, for example, attended the Dayton Hamvention for many years.



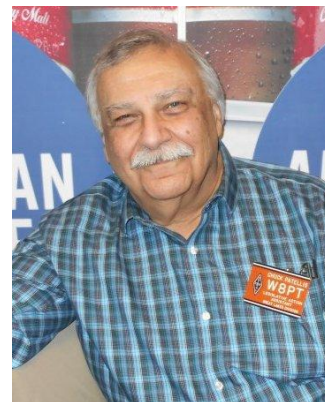
As such, the catalog is not a "ham radio" catalog, but if you build stuff at all you'll find something of interest in its 1,799 pages. It includes nearly any kind of electronic part that you might need.

The section that might you might want to start with is the "makerspace" section. In this section, you'll find Raspberry Pis, BeagleBones, and even micro:bits.

Like I say, these catalogs are all about possibilities. Get your own copies—they're free—and page through them. I'd be surprised if you didn't run across something that you didn't know about before, and it gave you some ideas about your next amateur radio project.

Dan, KB6NU, is the author of the "No Nonsense" amateur radio license study guides and blogs about amateur radio at KB6NU.Com. When he's not picking nits about the name of our hobby, he teaches ham radio classes and operates CW on the HF bands. You can email him at cwgeek@kb6nu.com.

Chuck, W8PT



First of all, I'd like to thank all the members who attended our recent DX/Contesting Special Interest Group meeting held on Oct. 24.

We had a great discussion regarding the upcoming 2018 Contest season and chose a number of our favorites and some new contests in which to participate. We also discussed setting up another operating position. More on that topic below.

Since there have been some requests to once again put K8BF on the air in a RTTY contest, we decided to do this. But since many of us have not had the pleasure of working RTTY, let alone doing so in a contest, George - K3GP, has graciously (read possibly kicking and screaming) agreed to do some training. All kidding aside, we chose to do some training in January during the BARTG RTTY Sprint, which takes place the weekend of Jan 27. We will set up at least one rig and take turns making contacts with George's guiding hand showing us the ropes.

On February 10th, we will host our special QRP event, Freeze Your Acorns Off. We will of course also host our now annual Best Dish Cook Off. One of the suggestions was to get back to making sure that the stations contacted by those taking part understand that this is an event hosted by PCARS and that a certificate suitable for framing can be obtained by sending in proper request. Yes, for those operating from the Kent park, it will still be looked upon as an in-house contest. But We need to get back to the original concept of an event for those contacting our participants.

Later that month we will put our RTTY training to use as we put K8BF on the air in the North American QSO Party, RTTY contest that takes place the weekend of Feb. 24th.

In March we will once again participate in the Idaho and Wisconsin QSO Parties the weekend of March 10th.

Since we have traditionally participated in the Michigan QSO Party in April and have done very poorly due to the signals simply skipping over us, we have decided to participate in the Florida QSO Party that takes place the weekend of April 28.

May of course is our time to get ready for Field Day and we do so by holding our Antenna Day trial run. This year it will be on May 5 and we have done so by setting up our stations and making contacts with stations participating in four QSO Parties. These are the 7th Call Area QSO Party, and the QSO Parties of Indiana, Delaware, and New England.

And we can't forget that this is also the month for Hamvention!

Of course June has the premier event of Ham Radio for us US Amateurs and that is Field Day, which takes place the weekend of June 23. But a couple of weeks before that is the ARRL June VHF Contest. We have started discussions regarding the installation of at least a 6m Yagi and possibly a 2m Yagi. If this comes to pass prior to the weekend of June 9, we will take part in that contest.

July will be a double header for K8BF. The weekend of July 21 holds two contests. The North American QSO Party, RTTY Contest and the CQ WW VHF Contest. Since take place on different bands, we have decided to play in both.

In August we have our annual big get together during the Ohio QSO Party / BBQ Event. This takes place the weekend of Aug 25th.

September is the month that PCARS hosts Ohio State Parks On The Air which takes place the first Saturday after Labor Day.

Our final event of the year takes place in October. This is the California QSO Party, which takes place October 6-7.

So there you have it. You can mark your calendars now and hopefully, all the above will take place.

A second topic was discussed with all present giving a favorable opinion. We realize that there are those who would like to take

part in some of these contests but are not comfortable with the fast pace that some of these contests seem to require. Their contesting technique is more geared to the Search & Pounce method of operating. In order to include these folks in our contesting, we will be setting up a 5th operating position specifically for S&P. This will allow both types of operating methods to be used during our contesting endeavors. The logistics will have to be worked on and this will not happen immediately but I look forward to getting this accomplished so that anyone who wants to be a part of our contesting efforts can do so.



PCARS



K8BF - Ca QSO Party - 2017

I'm on FT8 ! Now What ?

Andrew Ellis, NO6E



An ancient joke:

“Ask me what I do. Then ask me why I'm good at it.”

“What do you do?”

“I'm a comedian.”

“Why are you...”

(Interrupting) “Timing!”

In FT8, as in every mode, there is a time to transmit, and a time NOT to. Figuring out which is which will let you make more contacts and prevent your fellow hams from cursing you under their breaths.

Given that Joe Taylor, W1JT, and Steve Franke, K9AN, only released the software for the new sound card mode FT8 on June 29th, 2017, the growth of FT8 on the air has been nothing short of astonishing. I've only been on it a few weeks, and I've already worked hundreds of unique stations.

How to get on FT8 has been written about frequently, though the best writeup is probably the original user manual, downloadable from the WSJT-X web page: <https://physics.princeton.edu/pulsar/k1jt/wsjt.html> WSJT-X, the software that includes FT8, is available (free) for many computer platforms, including Windows, OSX, Linux and Raspbian.

Without going into all of the details, FT8 is similar to its elder siblings, JT9 and JT65-HF. Stations take “turns” sending and receiving. The big difference in FT8 is that the turns are only 15 seconds long instead of a minute, meaning that FT8 QSOs run at around four times the speed of the older modes'. The “Even” turns are the ones that start at :00 and :30 past each minute, while the “Odd” turns are the ones starting at :15 or :45 past the minute. This rigid schedule is one of the mode's powerful features: It mostly assures that you and the station you are contacting are using opposite time slots instead of transmitting at the same time! (This rigidity also means that you need to set your computer clock carefully: Aim for within 1 second of UTC time from WWV or GPS.)

So, now you're on, and you've even made a few contacts. In some ways it's very different from traditional ham radio: You don't need to listen, you don't need to type (or send) the call sign of the person you want, and you can do fine even if English is not your first language. In other ways, though, it's the same as always: The bands that work best at your QTH during the day and night are the same ones you've always used.

“Band,” by the way, has a special meaning in FT8. When we think of “Band,” we're usually talking about, say, the 40M band, or, at least, the cw, data or voice portions of it. But FT8 is an extremely narrowband mode, around 50 Hz wide. In the case of 40M, you set your radio to upper sideband (yes, upper, even on 40M and 80M) and tune it to 7074 kHz. After that, you never touch the tuning knob again. ALL FT8 activity (well, practically) happens in the 3 kHz or so bandwidth of a typical SSB QSO. In other words, a dozen or more FT8 QSOs can easily operate in the space occupied by one SSB signal. The WSJT-X software remembers the normal operating frequencies on 160M through 6M, so you can leave the radio dial set on each band if you like. My tuning knob is getting dusty!

The screenshot displays the WSJT-X v1.8.0-rc1 software interface. The top window shows a wideband spectrum plot with a frequency range from 400 to 2200 kHz. A signal is visible around 14.07 MHz. The bottom window shows the 'Band Activity' and 'Rx Frequency' tabs. The 'Band Activity' tab displays a list of detected signals, including 'CE0YHO DGS9' and 'CE0YHO NOE CN73'. The 'Rx Frequency' tab shows the selected signal's details, including its frequency, mode, and name. The interface also includes a 'Log QSO' section with a 'Stop' button and a 'Generate Std Msgs' section with a 'Next' button. The bottom status bar shows the current time as 8:42 AM on 8/6/2017.

As you can see, my last call to Jose was at 15:42:00 UTC. I hoped to see his reply to me in his transmission at 15:42:15. I didn't get it, though. Instead, Jose called HK3JJH during that time slot. Hey, it happens! But look at the following time slot, 15:42:30. My rig is poised to call Jose again! That's bad, because he's not looking for a contact, he's in the middle of one.

I'm not really losing anything: Jose isn't looking for a call from me, and I'm only getting in the way. Better for me to wait until he finishes the present QSO before calling him again.

Portage County Amateur Radio Service, Inc. (PCARS)

Because of the timing scheme built into FT8, there's a “wasted” time slot you can put to use. Consider an ordinary QSO, using the Even (“E”) and Odd (“O”) time slots:

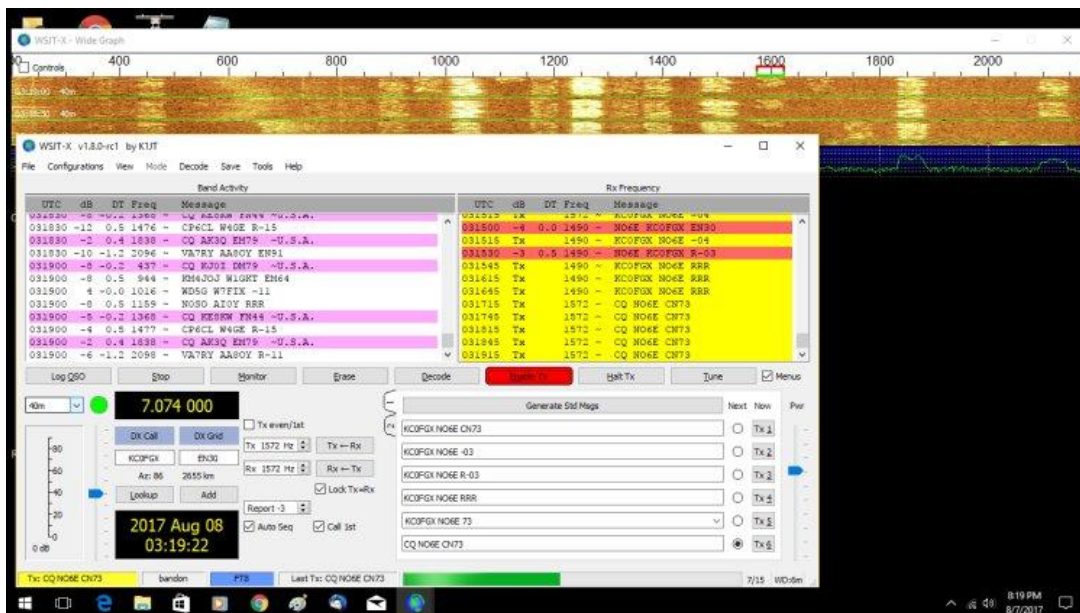
E: CQ NO6E CN73
O: NO6E W1ABC EM21
E: W1ABC NO6E -10
O: NO6E W1ABC R-12
E: W1ABC NO6E RRR
O: NO6E W1ABC 73
E: W1ABC NO6E 73

Now, let's say I want to keep calling CQ to find another QSO. I click “TX Enable,” which has turned off automatically at the end of the QSO. That means my next transmission will be:

E: CQ NO6E CN73.

But what happened to the odd time slot between my sending 73 and my calling CQ again? Nothing, of course: It went by without anybody transmitting. It happened because I've been transmitting on the even time slots, so my CQ will need to wait until the next even turn.

But if you've been following the QSO and you're dying for a contact with the exotic Oregon Coast, you could have clicked “Enable TX” on your radio to call me after I send the 73, but before I call CQ again. I'm receiving during the odd time slot, so, if I'm paying attention, I'll probably answer you and you'll have your contact. Lucky you!



Finally, here's a screenshot that illustrates how important it is to have your PC clock set correctly. I've been calling CQ in the odd time slots, 03:17:15, 03:17:45 and so forth. Now look at the “Waterfall” display at the top of my screen. (You can select different color palettes for it. The one I use is “Brown.”). As they usually would be, my transmit and receive frequencies are

locked together. They're shown by the red and green brackets around the range of frequencies from roughly 1575 Hz to 1625 Hz. Now look at the even time slots below them. You'll see that someone has been trying to call me during all three of the last even slots. But their signal starts late, so there isn't time to get the call in, and I receive nothing. I'll never be able to work this person until they synchronize their clock!

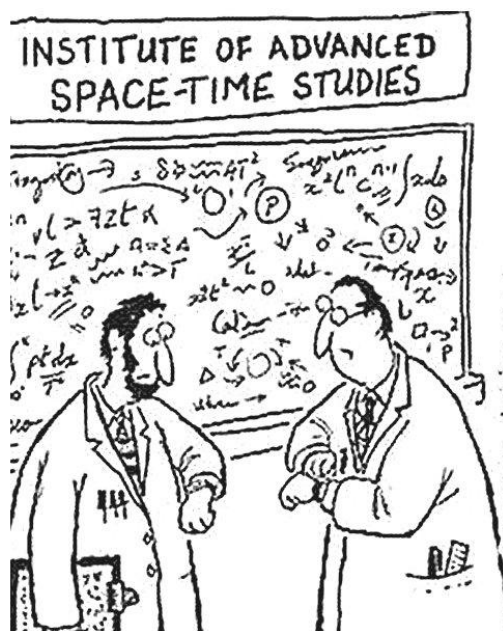
There are a number of utilities to set your computer clock automatically. In Windows, the normal setting, once a week, is not often enough to keep your clock accurate for FT8. You can set it manually each time you operate, or use a utility that does it for you at specified intervals. When you're on-air the “DT” column in the “Band Activity” window shows the difference between other stations' clocks and yours. If it looks like most other people are wrong, it's probably YOU that is.

FT8 is a ton of fun. Many of us think it's great, though some will say it's "Not real ham radio." No one will force you to give it a try. I think you'll enjoy it if you do.

The other night, I narrowly missed contacting Joe, W1JT, on FT8. It would have been like working Marconi on CW!

Editors Note. This article originally appeared on eHam.net October 14th. The author, Andres Ellis, NO6E granted permission for PCARS to re-print it. Andrew noted "Some of the issues I discussed were addressed in version 2 of WSJT-X, which came out after I wrote the piece but before it appeared on eHam. Still, it won't hurt. Thanks for asking permission, and 73 to all at PCARS".

Spring Forward - FALL BACK



**No - It's Spring Forward
FALL BACK**

It is that time of year again - Sunday, November 5th at 2:00 am (local time) - Turn your clocks **BACK** one hour (Fall Back). We go from Eastern Daylight Saving Time to Eastern Standard Time.

**UTC (GMT or Zulu Time)
does NOT change.**

So, follow me on this..... at 2:00 am (0200) local it will be 0600 UTC or 4 hours behind UTC.

We turn our clocks back one hour and that makes it 1:00 am EST (0100) - our local time. It will **still be 0600 UTC**. We are now **5** hours behind UTC time.

You get to sleep in one more hour on Sunday morning. But don't worry, they will take that hour back again in Spring when we turn our clock ahead one hour (Spring Forward).



Digital SIG

Rick, K8CAV

The PCARS Digital Special Interest Group will be meeting on Tuesday November 7th at 7:00 PM at the club site in Ravenna.

We'll be doing some on the air work with RMS Express, WSJT-X, and fldigi. We'll also be available to help with any questions or issues you may be having with digital communications.



Charlie the Tuner's HF High-Lites

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

If you think that this year has passed pretty quickly, try to get your head around this item – as I write this column, there are only 59 shopping days left til Christmas!! Wow!!!

The WX has been giving us hints of colder weather to come and the lawns are filling up with leaves. I continue to count on the blustery winds to keep my front yard free of leaves. Of course my neighbor gets not only his leaves but mine also. Not to worry, he has the equipment to suck up all of them.

The tower projects keep my good friend and fellow PCARS member, Jack - N8BI, and me busy. I have to say that watching him work on the tower has taught me a great deal about safety and doing things right. It reminds me that there is nothing better than to observe someone who knows what they are doing, go about the job in a very orderly way. For antenna and tower work, he continues to be a true mentor.

I hope that those of you who still have radio projects to complete are doing so. It won't be long before all of our projects will have to be indoor ones.

If you have been on the air in recent days, you will have noticed a lot of DX stations on the various bands tuning up for the CQ WW DX Contest. I know that by the time you read this, the contest will be history but many of the DX stations will still be around so it is a good time to work some of the DX you normally don't hear.

And since we are speaking about DX, I need to include this piece of sad news: SILENT KEY. It is with great sadness to report that the DX community has lost a DX icon in reporting DX news. Carl Smith, N4AA, DXer/Editor and owner of DX Publishing (QRZ DX and The DX Magazine) has become a Silent Key (SK) at the age of 77 on the morning of October 20th. Carl was a very active individual in providing DXers with upcoming DX activities through his QRZ DX bulletins, The DX Magazines and his years of writings the DX editorial for CQ Magazine. He was also inducted into the CQ DX Hall of Fame in 2012. Carl had many friends in the DX community. He will surely be missed. ADDED NOTE: Read the nice write-up about Carl on the ARRL Web page at: <http://www.arrl.org/news/view/qrz-dx-and-the-dx-magazine-publisher-carl-smith-n4aa-sk>

I continue to thank the following DX news sources: the Northern Ohio Amateur Radio Society, Northern Ohio DX Association, Ohio/Penn Packet cluster Network, AB5K & the AR TelNet Clusters Network, K1XN & GoList, NJ1Q & W1AW, NG3K & ADXO, W3UR & The Daily DX, N4AA & QRZ DX, W4DN, K8GI, K8YSE, W8GEX & 60m DX News, W9ILY, N0FCD, CO3JK, DL1SBF, DL7UXG & The DX News Letter, DxCoffee.com, DXNews.com, DX-World.Net, ES1CW, F5NQL, F6AJA & Les Nouvelles DX, I1JQJ/IK1ADH & 425 DX News, I2MQP & DX Italia News, IZ5HQB, OZ6OM & 50 MHz DX News, RSGB IOTA Web Site, Sixitalia Weekly, VA3RJ & ICPO, VHF-DX-Portal(MMMonVHF) and VU2DSI for the following DX information.

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



3B8, MAURITIUS. Jean-Paul, HB9ARY, will once again be active as 3B8HC from Mauritius (AF-049) between November 4-18th. Activity will be holiday style on 80-6 meters (focus on 80m), using mainly SSB, but with some slow CW. Jean-Paul will use an Elevated Delta-Loop for 80-30 meters along with his folded HexBeam for 20/17/15/12/10/6 meters. QSL via NI5DX direct.

4W, TIMOR LESTE. Thomas, OZ1AA, will be active as 4W/OZ1AA from Dili, East Timor (OC-148), between November 1-7th. Activity will be on 40-10 m using CW and some FT8. Equipment will be a Kenwood TS-590SG (100w) into a homemade multi-band vertical. QSL via OZ1ACB, ClubLog's OQRS or LoTW.

9M6, EAST MALAYSIA. Saty, JE1JKL, will once again be active as 9M6NA from Labuan Island (OC-133) during the CQWW DX CW Contest (November 25-26th) as a Single-Op/All-Band/High-Power entry. QSL via his home call sign or LoTW. See Web page at: <http://jsfc.org/je1jkl/9m6na.html>

AF-051. Kassa Island, Operators Alain/F5OZC and Sebastien/F8DQZ will be active as 3XY3D from Kassa Island, Los Islands (Iles de Los), between November 2nd and December 1st. Activity will be on 80-10 meters using mainly CW. QSL via F5OZC.

AS-200. Shodo Island, Takeshi "TAKE"/JI3DST(JS6RRR) will once again be active as JI3DST/5 from Shodo Island (in the Shikoku's Coastal Islands) between November 3-5th. Activity will be on 80, 40, 30 thru 10 and 6 meters using CW, SSB, RTTY and FM. This operation is subject to change because of bad WX or other conditions. QSL JI3DST/5 via the Bureau or direct by ClubLog's OQRS. Please check QRZ.com for more details. For more details and possible updates, see QRZ.com or <http://blog.goo.ne.jp/ji3dst>.

C9, MOZAMBIQUE. Johannes, PA5X, is now active as C93PA from Beira as of mid-October for the next coming months. Activity so far has been on 40 meters FT8, but will probably be on various HF bands using SSB and the Digital modes (FT8/JT65/WSPR). He is the first ever operator to operate FT8 in Mozambique. His setup consists of: Yaesu FT DX 5000MP Ltd, SM 5000, Acom 1010 HF Linear Amp (800W), Kio Hexbeam antenna and Endfed antenna. QSL via LoTW, ClubLog and QRZ.com. For paper QSL cards, QSL via PA5X, by the Bureau or direct.

CT8, AZORES. Operators Babs/DL7AFS and Lot/DJ7ZG will be active as CT8/DL7AFS and CT8/DJ7ZG from Sao Miguel Island (EU-003) between October 23rd and November 10th. Activity will be on 80-10 meters using mainly SSB and the Digital modes. QSL via DL7AFS and LoTW. For more details and updates, see: <http://www.qsl.net/dl7afs>

EL2, LIBERIA Operators Jeremy/EI5GM, David/EI9FBB and Col/MM0NDX, in collaboration with two Liberian Radio Amateur Association operators Richmond/EL2BG and Dickson/EL2DT will be active as 5L3BI (pending) from Baiyah Island, Liberia, between November 1-4th (tentative). Activity will be on various HF bands. QSL via M0OXO or OQRS. Their Web page is at: <https://af111new.com>

H44, SOLOMON ISLANDS. Bernhard, DL2GAC, is once again active as H44MS from Malaita Island (OC-047) in the Solomon Islands, until end of November. Activity has been on 160-6 meters on SSB. QSL via his home call sign.

HC8, GALAPAGOS ISLANDS. An Argentinian group will be active as HC8LU from San Cristobal Island in the Galapagos Islands between November 29th and December 8th. Operators mentioned are Alejandro/LU8YD, Alejandro/LU9VEA, Mario/LU7VB and Patricio/LU3YK. Pilot stations are Sergio/LU7YS and Javier/ LU5FF. Activity will be on 160-10 meters using mainly SSB and Digital modes (WSPR, JT65, FT8, PSK31). Also operations on the satellites (LEO, FM and SSB). QSL via IK2DUW. Visit their Blog page for updates, at: <https://hc8lu.blogspot.com.ar>

P2, PAPUA NEW GUINEA. Roly, ZL1BQD, will be active as P29RR between October 20th and November 6th. Activity will probably be mainly on 40/20 meters using CW and the Digital modes (FT8, JT65, JT9). QSL via his home call sign direct, LOTW or eQSL.

PJ4, BONAIRE. Operators Oliver/DH8BQA, Paul/DL5CW, Tom/DL5LYM and Peter/ PJ4NX will be active as PJ4/homecall between November 9-29th. Activity will be on 160-10 meters using CW, SSB and RTTY. QSL via their home call sign. Look for them to be active as PJ4Y during the CQWW DX CW Contest (November 25-26th) as a Multi-Single entry. QSL via DL5CW (only for QSOs of this year's CQWW-CW).

T6, AFGHANISTAN. Salvatore, IZ1BWB, is now active as T6/IZ1CCK from Herat, Afghanistan, until the month of December. He is there as a Brigade Alpine "Taurinense" in the Italian Army. Activity has been mainly on 20 meters using CW and SSB. QSL via IZ1BWB, direct or by the Bureau.

V6, MICRONESIA. Shu, JA1FMN, will once again be active as V63PSK from Weno Island (in the Chuuk State; also known as Moen Island; OC-011) between November 14-18th. Activity will be holiday style on 20-10 meters using JT65, JT9, FT8 and PSK63. Watch primarily between 1700-0200z. QSL via JA1FMN, by the Bureau, direct, eQSL or ClubLog's OQRS.

V8, BRUNEI. Tom, KC0W, has announced that after his VR2 and 3W9 operations he will be active as V85/KC0W from Brunei between December 3-18th. Activity will be on 80-6 meters using CW and FT8. There will be an emphasis on North America on FT8. QSL direct via KC0W. ADDED NOTE: Tom states, "More DXpeditions after Brunei".

YE2, INDONESIA. Members of the ORARI Semarang Contesting Team will be activating YE2C during the CQWW DX CW Contest (November 25-26th) as a Multi-2 entry. Operators mentioned are Yana/YB1AR, Agus/YB1ALL, Martinus/ YB2LSR, Dani/YB2TJV, Agus/YB2TX, Imam/YB4IR, Anton/YB5QZ, Kei/YB0ARJ, Surata/YC1BJX, Han/YD1SDL/2 and Rivai/YE3AA. QSL via LoTW ONLY. For more info on the YE2C station, see: <http://ye2c.wordpress.com>

YJ, VANUATU. Tom, JA1VND, will be active as YJ0JA from Port Vila, Efate Island (OC-035) between November 15-20th. Activity will be on 160-10 meters using CW, SSB and RTTY. QSL via his home call sign, direct, by the Bureau or LoTW.

That's it for this month. Turn your HF rigs on and work some DX. If you don't have an HF rig, then take advantage of our club's Open House days and work some DX from the club site. **Until next month, vry 73.**



Veterans Day Special Event Station

Veterans' Day is a special day for Americans to set aside normal routine and reflect upon the sacrifices made by members and families of our Armed Forces in defense of freedom around the world throughout our country's great history.

The American Legion Amateur Radio Club Station K9TAL in Indianapolis will operate a special event station (N9V) to commemorate Veterans' Day. Working from the radio room at National Headquarters in Indianapolis, volunteer ham radio operators at N9V will celebrate service and sacrifices in the United States Armed Forces with both members and non-member amateur radio operators around the world on Saturday, November 11. Veterans of Armed Forces around the world are certainly welcome to participate.

[Details subject to change] Ham radio operators wishing to contact Special Event Station N9V should tune to 40 meters: 7.225 MHz (+/- 5 KHz) LSB; or to 2 meters: K9DC 147.315 Repeater at Indianapolis; or IRLP Node 9735; or, to EchoLink *CROSSRDS* Conference node. All operations will be conducted on Saturday, November 11, between 1 p.m. and 7 p.m. Eastern time. All amateur radio operators are invited to check in. American Legion posts with TALARC stations are encouraged to check in from around the country, and to help relay messages to the national headquarters.

Can't hear us? To accommodate those who experience difficulty hearing or being heard by K9TAL, we anticipate that you will be able to check in via relay through TALARC members Everett, WA3DVO in Maryland, 40M: 7.225 MHz (+/- 5 KHz); or Bill, KI0CW in South Dakota, 20M: 14.275 MHz (+/- 5 KHz). Both relay stations will be operating certain hours on the two bands as the main net control operators using the SE call sign N9V. Other American Legion amateur radio stations may also relay messages--and will be identified if possible here on the events calendar before the event.

A full-color certificate and QSL card will be sent to all amateur radio operators contacting K9TAL either directly or by relay. Send a 9-by-12-inch self-addressed stamped envelope (three standard or "forever" stamps will do, or check exact postage at post office counter) to:

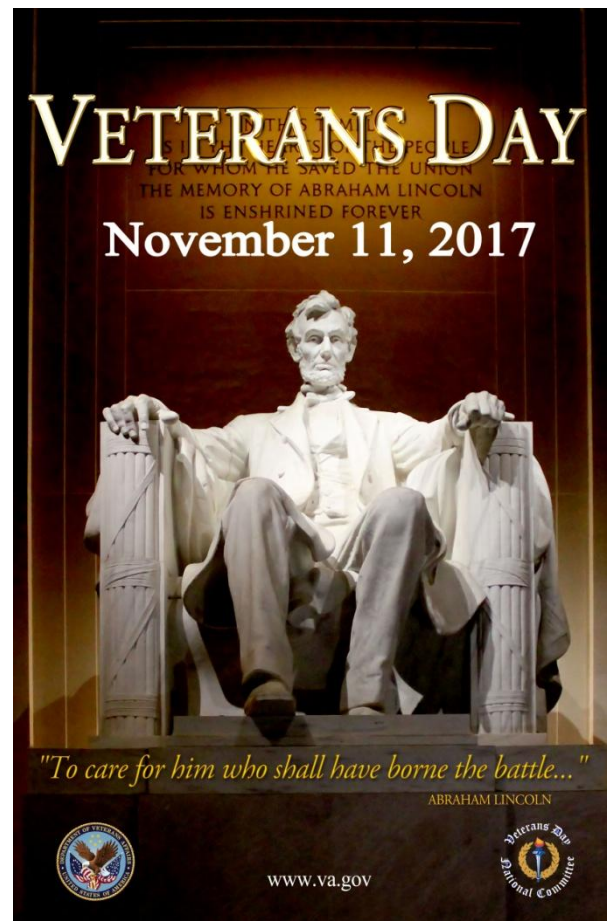


THE AMERICAN LEGION

The American Legion National Headquarters
Attn: TALARC/N9V
700 N. Pennsylvania Street
Indianapolis, IN 46204

Saturday, November 11, 2017 Start time: 1:00 PM Time zone: EST (Eastern Standard Time)

Contact name: Bill Sloan, NZ9S - Contact phone: (317) 630-1265 Contact email: k9tal@legion.org
Web site: www.legion.org/hamradio



D-Star Trains & Railroad Net

Daryl, WX1DER

Here are three photos related to the D-Star Trains And Railroads Net that I do every Friday at 8pm Eastern Time on D-Star Reflector 26A. I'm finalizing a certificate for those who check-in to the net, with the help of Paul Frey, K9PTF.

As for the photos...the first one is of yours truly (the Conductor), taken at the Arkansas Railroad Museum in Pine Bluff, Arkansas. The Conductors outfit was purchased from Train Conductor Costumes (www.trainconductorcostumes.com) -- although I bought the long sleeve white shirt and black slacks from Wal-Mart to save money.



my metal reading glasses, instead of the ones they provided..that is in another photo...with the accessories.

The third photo is a logo for the net, designed by Paul Frey, K9PTF...with the Rock Island logo provided by Andy Wellman, KF4JQD. I have incorporated both of these into my profile picture on QRZ (click on the photo there for a better view). I will post it to my Facebook page. I'm going to a local square dance club Halloween Dance as a Train Conductor and I want to surprise the folks with that.

I understand the outfits are very popular...and to me, well worth the price. You get several accessories and you can order the regular, or the Polar

Express outfits. I had to order a larger Conductor's Hat off of Amazon, due to my "fat head" (hi hi). On the scrolling name badge, it reads "Welcome Aboard From The Conductor". I also had a black jacket that I hadn't worn since I got married...and I put a bunch of railroad related pins on each lapel. However, I'm using



A YouTube Video, done by Gary Wilt, W2GJW, from the story promoting the net, from the Sept. 22, 2017 edition of Amateur Radio Newsline, is located at:

<https://www.youtube.com/watch?v=G7yTRNcD1uM&feature=youtu.be>

Yours truly can be seen operating 20 meter HF Railroad mobile, on the Arkansas and Missouri Railroad Troop Train, on Memorial Day Weekend, 2011, along the former Frisco line between Springfield, Missouri, and Fort Smith, Arkansas, from a YouTube Video done by Steve Tune, KC5FWE, located at:

<https://www.youtube.com/watch?v=syErpRb6lFI>

Hurricane Recovery Mission Ends

From the ARRL



“Force of 50” Volunteers’ Puerto Rico Hurricane Recovery Mission Ends

The 22 “Force of 50” radio amateurs who deployed to Puerto Rico earlier this month as American Red Cross volunteers have ended their mission and will be back on the US mainland by week’s end. They had been in Puerto Rico for about 3 weeks.

“The Force of 50 volunteers demonstrated an extraordinary range of skills possessed by this accomplished team,” said ARRL CEO Tom Gallagher, NY2RF. “There was no task that they wouldn’t tackle. It also demonstrated the generosity of these volunteers, who not only performed their roles as communicators, but also engaged the population with their many acts of personal kindness.”

Val Hotzfeld, NV9L, who filed situation reports documenting the team’s activities, said the volunteers accomplished everything they went to Puerto Rico to do, “and then some.” She said that the Red Cross felt they had exceeded all expectations.

“We opened a lot of peoples’ eyes when we started going to the ESF-2 communications task force meetings. They had no idea of our capabilities,” Hotzfeld told ARRL. “When they heard what we’d accomplished, we were swarmed; everybody was wanting us.”



Hotzfeld said the volunteers’ initial mission was to provide a way to gather outbound health and welfare messages and put them into the Red Cross’s Safe and Well System using Winlink. However, the mission changed once they were on the ground when they discovered the needs were much greater.

“No one had any communications, so the mission morphed to communications,” she said. “But, we did both.” She said the Red Cross recognized the value of ensuring communication for hospitals, and other volunteers handled Safe and Well messages.

She said the volunteers possessed a wide range of talents, from medical to mechanical, not just communications. For example, Andy Anderson, KE0AYJ, set up the helicopter landing pad at Guajataca Dam, Hotzfeld said, and provided communications where there was none.

Ten SHARES (Shared Resources) HF Radio Program operators will replace the Amateur Radio volunteers who had worked on behalf of the Red Cross. These SHARES operators are federal employees who happen to be radio amateurs and volunteered for the duty in Puerto Rico. Hotzfeld said they will be stationed in four different zones, with two operators at headquarters in the San Juan Convention Center. “The hospitals did not want us to leave,” Hotzfeld said. “They were begging us to stay.” She noted, though, that the hospitals also have access to satellite telephones.

“I was so proud of our guys,” Hotzfeld said in summary. “They were rock stars.”

New IOTA Web Site Up & Running

From the ARRL



The new Islands on the Air (IOTA) website (<http://www.iota-world.org/>) and the software system that will run the IOTA program in the future are up and running, and users will be redirected from the old site to the new one and log in using their existing credentials. In preparation to the website move, IOTA had to disable user logins on the old (RSGB) IOTA website on September 12.

HamCon Presentation

Anthony, K8ZT

Assistant Ohio Section Manager for Education Outreach

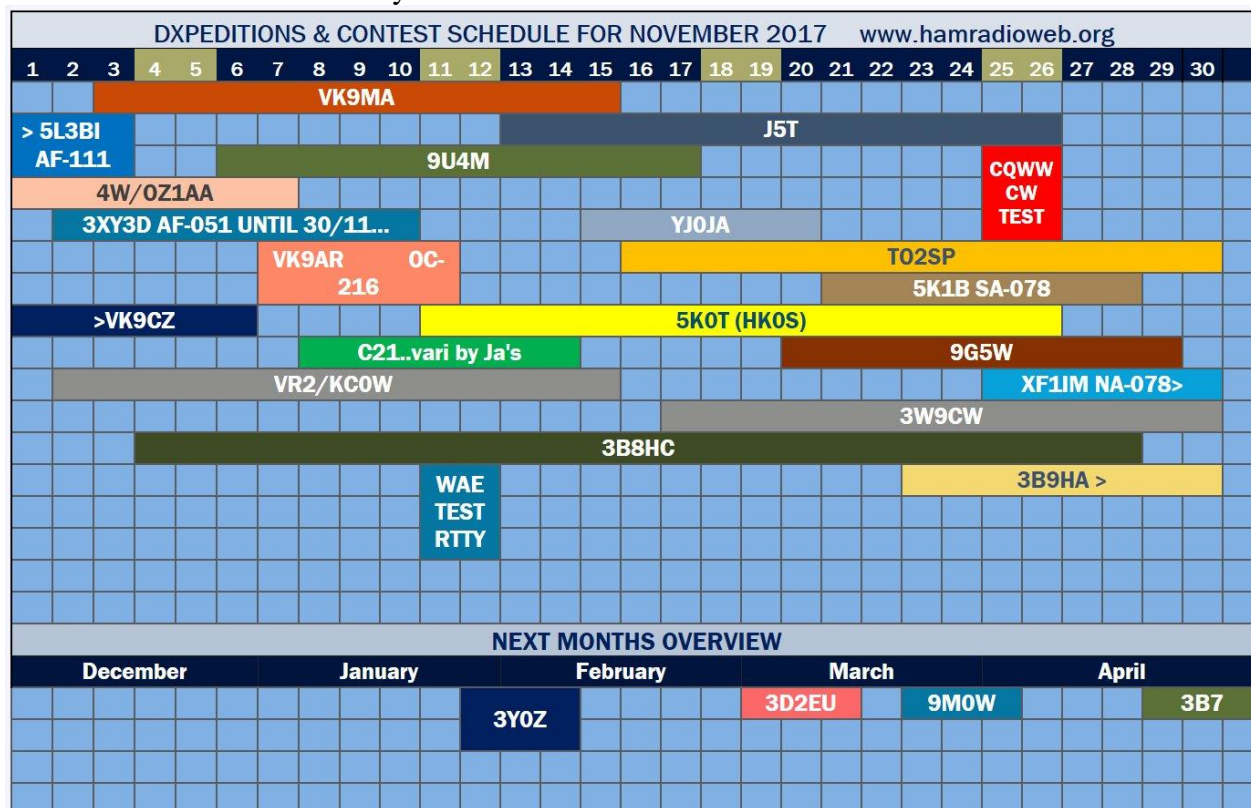
Contesting Presentation from 2017 ARRL Great Lakes Division Convention

Here is a link to my presentation - "Beyond Just Logging, Software & Web Resources for the Contester" <http://tinyurl.com/y77293h2>



DX For November

Check out the PCARS web site and you can download a full size DX for November Chart.



ARRL November Sweepstakes 2017

From the ARRL

Objective: For stations in the United States and Canada (including territories and possessions) to exchange QSO information with as many other US and Canadian stations as possible on 160, 80, 40, 20, 15 and 10 meter bands.



Operating Guide (PDF) - Including Full Rules
<http://tinyurl.com/yc064gpo>

For Contest Club Updates Go Here <http://www.arrl.org/contest-club-tools/>

Reminder: the Canadian province of Ontario now consists four RAC sections: Ontario North (ONN), Ontario South (ONS), Ontario East (ONE) and the Greater Toronto Area (GTA). Make sure your contest logging software and "country" (CTY) files have been updated so that those abbreviations are recognized and credited properly. View a map of the VE3 sections. <http://tinyurl.com/ycndgb8s>

Log Submission Deadline - Logs are due within FIVE (5) days after the event is over. Paper logs are still accepted, but electronic Cabrillo logs are preferred. Contest clubs are encouraged to help their club members submit their log electronically. Logs that have been submitted electronically are listed on the Log Received page.

Click the year and contest to see a list of submitted logs sorted by call sign. Dates- CW: First full weekend in November (November 4-6, 2017) - Phone: Third full weekend in November (November 18-20, 2017) Contest Period: Begins 2100 UTC Saturday and runs through 0259 UTC Monday.

VY1AAA is a Go for ARRL November Sweepstakes

The often-elusive Northern Territories (NT) multiplier for ARRL November Sweepstakes will be on the air this year, as Gerry Hull, W1VE, takes the helm of VY1AAA, remotely operating the station of J Allen, VY1JA, in Yukon Territory. Hull and Allen have done a lot of work on the system on their respective ends of things.

"J has done a lot of work on the station, moving it to an outer building, so it does not bother him when we operate," Hull told ARRL. "The quad has been strengthened. A 160-meter double-L with a 70-foot vertical section has been installed." He said the Alpha linear has been repaired, there is remote antenna switching and azimuth control, plus "small changes in the station to improve reliability." Allen has been working on station wiring, too, he said.

Hull shipped Allen a 500-foot roll of coaxial cable over the summer along with "many coax connectors" and other odds and ends.

"A Sweep may be hard, given the conditions in the US Virgin Islands and Puerto Rico," Hull allowed. He said the VY1 station will be active in the ARRL 160-Meter Contest in December too. He pointed out that all VY1AAA remote operators must hold Canadian Advanced amateur licenses. — Thanks to Gerry Hull, W1VE



Mag Loop Antenna Fun

Amy, KD8SKL

About a month ago, my Dad, Wayne, K8FF told me to come over and help him test his newly built Mag Loop antenna. I went outside in the back yard where he had some coax going through the basement window. I moved the antenna around while Dad was inside trying to make contacts. I moved a little to the right, a little to the left, stood in the landscaping, all to no avail! As soon as I heard that Jim Wilson, AC8NT and Frank Tompkins, W8EZT were doing a presentation at the October 9th PCARS club meeting I invited my Dad!



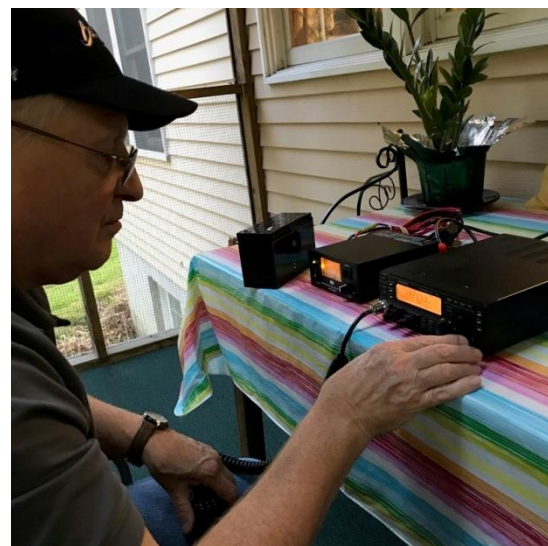
The presentation was very entertaining and informative as AC8NT and W8EZT did a great job!

After attending the meeting, my Dad chatted with AC8NT about some ideas for his antenna. This Saturday he got to work on Mag Loop III (Revenge of Mag Loop-ha ha). I went to his house and he set up his newest Mag Loop on the deck in the backyard. He plugged in a radio near the house and we tested it out. Dad was able to work a ham in Germany and one in Russia. (We also heard a couple of guys working the South Dakota QSO Party.) My Dad said he had changed the location of the drive loop of the antenna by moving it lower on the pole so it was well inside the loop. My Dad is currently in the process of building a controller for the Mag Loop using two relays and a computer mouse to control it.

Although the original budget for this build was \$10- like all budgets, it was blown by the \$35.00 ½ RPM motor. However, the

Copper loop was only \$5.00 and the capacitor was \$1.00. There was also a \$1.00 cracker keeper from Wal-Mart to house the capacitor. (Author's note: please do not leave crackers in the keeper along with the capacitor- this is kind of an "either-or" situation).

I want to send a big THANK YOU and SHOUT OUT to two of our super smart big brains from PCARS! As they say.....when Dad's happy everyone's happy ??.



PCARS Thursday Net Control

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.**

Don't forget - 4th Thursday is NET NIGHT at the Club Site !!

ATTENTION: Net Night at the Club Site will be CANCELLED for November and December due to Thanksgiving and the Christmas / New Years holidays. Please enjoy the time with your families and we will re-start Net Night at the Club Site in January of 2018.

November	
2	KA8TOA
9	K8IV
16	KB8UHN
23	NO NET
30	KB8UUZ

December	
7	AC8NT
14	NR8W
21	N8QE
28	KA8TOA

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

If you have not been a Net Control Operator for PCARS and would like to give it a try, *please* contact me at: KA8TOA@portcars.org

January	
4	WB8LCD
11	KB8UHN
18	K8IV
25	KB8UUZ

PCARS Wants to
hear from YOU



Everyone who is a club member is welcome to have a turn - and have fun being Net Control !

Please remember to e-mail me a copy of the log for the club records and certificates. If you have some issues and can't make it as net control see if you can trade with someone.

Contest Calendar

NOVEMBER 2017		
Contest Name	Click for more info	Times - Date
ARRL Sweepstakes Contest, CW	→ + ←	2100Z, Nov 4 to 0300Z, Nov 6
WAE DX Contest, RTTY	→ + ←	0000Z, Nov 11 to 2359Z, Nov 12
10-10 Int. Fall Contest, Digital	→ + ←	0001Z, Nov 11 to 2359Z, Nov 12
ARRL Sweepstakes Contest, SSB	→ + ←	2100Z, Nov 18 to 0300Z, Nov 20
CQ Worldwide DX Contest, CW	→ + ←	0000Z, Nov 25 to 2400Z, Nov 26

Google the Contest Name - Read the Rules & Have Fun. YES - There are **MANY** More Contests out there - Check the



Winter Outlook

U.S. Winter Outlook: NOAA forecasters predict cooler, wetter North and warmer, drier South
Drought likely to persist in northern Plains

October 19, 2017 Forecasters at NOAA's Climate Prediction Center released the U.S. Winter Outlook today, with La Nina potentially emerging for the second year in a row as the biggest wildcard in how this year's winter will shape up. La Nina has a 55- to 65-percent chance of developing before winter sets in.



NOAA produces seasonal outlooks to help communities prepare for what's likely to come in the next few months and minimize weather's impacts on lives and livelihoods. Empowering people with actionable forecasts and winter weather tips is key to NOAA's effort to build a Weather-Ready Nation.

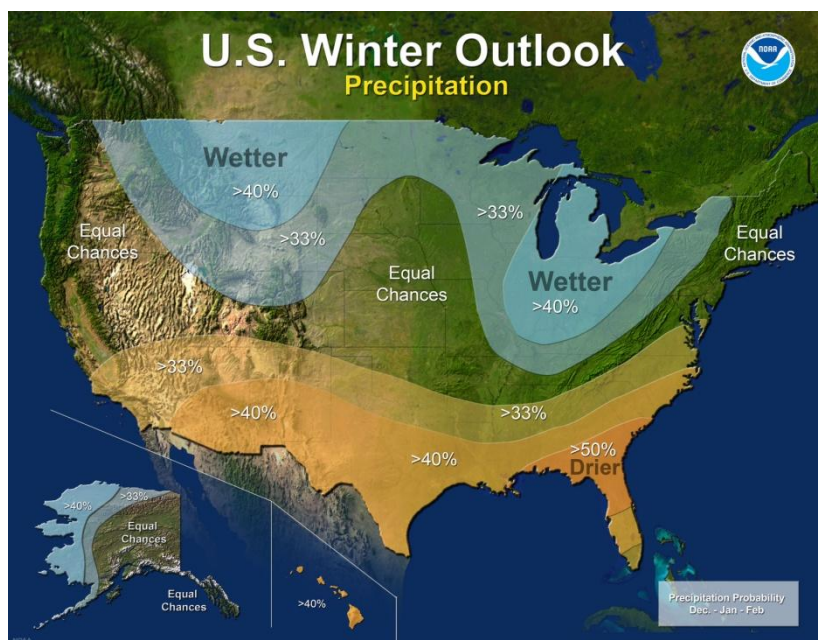
"If La Nina conditions develop, we predict it will be weak and potentially short-lived, but it could still shape the character of the upcoming winter," said Mike Halpert, deputy director of NOAA's Climate Prediction Center. "Typical La Nina patterns during winter include above average precipitation and colder than average temperatures along the Northern Tier of the U.S. and below normal precipitation and drier conditions across the South."

NOAA winter outlook for 2017-18

Other factors that influence winter weather include the Arctic Oscillation, which influences the number of arctic air masses that penetrate into the South and is difficult to predict more than one to two weeks in advance, and the Madden-Julian Oscillation, which can affect the number of heavy rain events along the West Coast.

The 2017 U.S. Winter Outlook (December through February):

Precipitation



Wetter-than-average conditions are favored across most of the northern United States, extending from the northern Rockies, to the eastern Great Lakes, the Ohio Valley, in Hawaii and in western and northern Alaska.

Drier-than-normal conditions are most likely across the entire southern U.S.

2017 winter outlook - precipitation

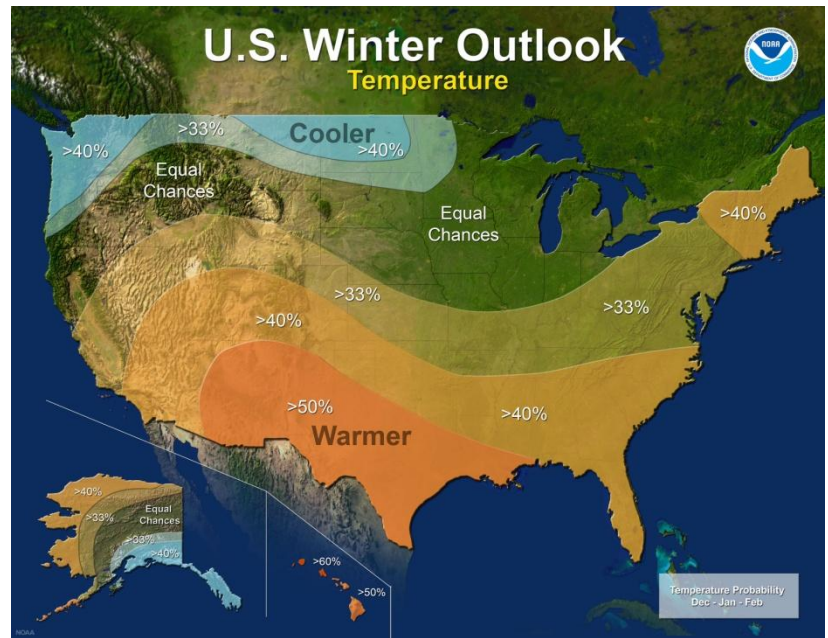
2017-18 Winter Outlook map for precipitation (NOAA)

Temperature

Warmer-than-normal conditions are most likely across the southern two-thirds of the continental U.S., along the East Coast, across Hawaii and in western and northern Alaska.

Below-average temperatures are favored along the Northern Tier of the country from Minnesota to the Pacific Northwest and in southeastern Alaska.

The rest of the country falls into the equal chance category, which means they have an equal chance for above-, near-, or below-normal temperatures and/or precipitation because there is not a strong enough climate signal in these areas to shift the odds.



2017 winter outlook - temperature

2017-18 Winter Outlook map for temperature (NOAA)

Drought

Despite the outlook favoring above-average precipitation this winter, drought is likely to persist in parts of the northern Plains, although improvement is anticipated farther West.

Elsewhere, drought could develop across scattered areas of the South, mainly in regions that missed the rainfall associated with the active 2017 hurricane season.

NOAA's seasonal outlooks give the likelihood that temperature and precipitation will be above-, near-, or below-average, and also how drought is expected to change, but do not project seasonal snowfall accumulations. While the last two winters featured above-average temperatures over much of the nation, significant snowstorms still impacted different parts of the country. Snow forecasts are generally not predictable more than a week in advance because they depend upon the strength and track of winter storms. The U.S. Winter Outlook will be updated on November 16.





PCARS K8BF

The Club that puts the FUN in Ham Radio!



Net Night at PCARS - QUIZ

October 26, 2017 Net Night Quiz

1. What current Solar Cycle are we in? A) 12 B) 15 C) 24 D) 37
2. When did Solar Cycles begin to be counted? A) 1492 B) 1755 C) 1862 D) 1907
3. How long (approx) does each Solar Cycle last? A) 5yrs B) 7yrs C) 9yrs D) 11yrs
4. Solar Cycle 25 is predicted to be very? A) low B) High C) Sporadic D) purple
5. A Dipole antenna should be mounted how high for maximum performance?
A) 30 feet B) 1/4 wavelength C) 1/2 wavelength D) 1 wavelength
6. What is the current number of DXCC Entities? A) 134 B) 268 C) 338 D) 387
7. To get the US "Worked all Counties" Award, how many counties to you need to work? A) 952 B) 1868 C) 3077 D) 4852 E) 6221 F) some of them G) most of them
8. What brand of ham radio equipment was distinguished by it's Green on Green cabinet color?
A) Clegg B) Hammerlund C) Gonset D) Heathkit E) Collins
9. Which famous Ham Radio Operator said this about contesting? "What could be more fun than winning?"
A) K8IV B) KB8UUZ C) WB2DFC D) W8FZS E) W1AW
10. What is the 6 meter SSB International Calling Frequency?
A) 27.85 Mhz B) 146.52 Mhz C) 50.4 Mhz D) 50.110 Mhz
11. Before the advent of the VFO, what was used to determine transmitting frequency?
A) Crystals B) Diodes C) Oil filled capacitors D) transistors
12. The 3 States which are part of the ARRL Great Lakes Division are:
A) OH, PA, WV B) MI, OH, KY C) OH, MI, WI D) OH, MI, WV
13. The current President of the ARRL is:
A) Kay Craigie, N3KN B) Rick Roderick, K5UR C) Scott Yonally, N8SY
D) Jim Weaver, K8JE E) Craig Fugate, KK4INZ
14. The United States Amateur Radio Postage Stamp was issued in what year?
A) 1914 B) 1932 C) 1945 D) 1953 E) 1964 F) 1971
15. What is a "LID"? A) The cap on the top of a radio tube B) An RF Shield installed on a circuit board
C) A poor operator D) A Low - impedance diode used in early UHF work
16. Operating CW, What Q-Code would you receive from an operator who thought you were sending too fast?
A) QRS B) QTF C) QLF
17. A homebrew circuit board making technique that uses small squares or circles of PC board material glued on top of each other is known as: A) printed circuits B) JPL (Just Plain Lazy) C) through hole mounting
D) Manhattan style
18. QRP power levels (for CW) are generally agreed to be less than:
A) 2 watts B) 5 watts C) 10 watts D) 100 watts
19. ERP stands for: A) Effective Resistive Power B) Effective Radiated Power
C) Effectively Radiated Power D) Encoded Radio Power
20. Amateur Radio Stations are supposed to evaluate their station installations each year to verify that they do not exceed the Guidelines for Human Exposure to Radiofrequency Electromagnetic Fields. These guidelines are found in FCC Bulletin: A) REFG B) OET65b C) FCC part 97 D) RF Regulations for a polite society

BONUS QUESTION: When soldering in a homebrew project:

- A) always make sure you are in a well ventilated area B) heat all leads properly to avoid a cold solder joint
C) If it smells like chicken, you're holding it wrong!

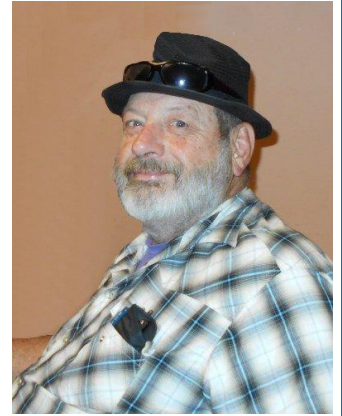


Answers on page 48



QRP & CW SIG

Terry, KB8AMZ



A few weeks ago, 2 members of our club attended the October 2017 CW/QRP SIG. We decided to have a build at the November 2017 CW/QRP SIG that would one be *cheap*, a project that we can use when operating on air HF, is *cheap*, either has list of a small number of parts we can purchase locally or comes in a kit, is *cheap*, is designed for our QRP gear, is *cheap*, has been built, used by other QRP operators, and has good reviews by other QRP operators, and is lastly *cheap*.

We found a kit designed by the qprkits.com that is actually 2 previous kits made into one. It's an End Fed Half Wave Antenna Tuning Unit with a LED the extinguishes when you've hit the ideal match on the SWR bridge. Rated at 5 watts it's for our use, QRP. It packs well and weighs in at 2.54 ounces. Cost is \$40. When should be able to put this kit together and test it within one hour (allotted time to build).

I have 2 extra kits, discounted to \$40 each. If you'd like to purchase your kit and sit in with us at the November 14, 2017 CW/QRP SIG then contact me prior to the meeting.

You will need to bring a soldering iron, solder, side cutters, needle nose pliers, de-soldering wick or de-soldering pencil, something to hold your PCB. If you would like to make one then bring a pine board 8-inches wide by 5-inches long either a quarter inch or one half thick, 2 Phillips head wood screws, and 36 inches of 12 AWG, solid core wire or soft aluminum wire.

Following the build we will discuss the December 2017 SIG topic to either do another build project, or if the members have enough equipment, do some set ups for operating in preparation for FYAO Contest in February 2018.

If you need to contact me about the EFHW SOTA ATU or any other matter concerning CW/QRP SIG please send me email via terry.kb8amz@gmail.com or call me at 330-221-0169.

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.



Daryl, WX1DER



Patience is a virtue, but sometimes, I think that this is rare in amateur radio...especially in regards to checking into nets. I have been doing nets ever since I got into amateur radio over 26 years ago...so I have more than enough experience as a Net Control Operator...with regular traffic nets, special format nets, and even with severe weather emergency nets.

Yet, there is seemingly ALWAYS a pile-up or rush to check-in -- whether on HF, VHF, UHF, Echolink, Packet, D-Star, D-Rats, etc.; as if certain ham radio operators feel that "It's the UNPARDONABLE SIN that will send them to Hell". There is such a sin, but missing checking into a net, not checking in early, or not in the first group of check-ins, is NOT that sin!!

Ham Radio is a HOBBY -- it should NEVER take priority over church, family, health, job, or honey-do's -- in the latter case, you could LOSE that nice new rig that you have your eye on for Christmas...especially if your spouse or significant other has already said "What part of YOU ARE NOT GETTING A NEW HAM RADIO do you not understand??!!" (hi hi).

Not all nets do "pre-net" or "early check-ins". Some will do them 15 to 30 minutes before the net begins...and sometimes as much as 45 minutes beforehand. It is RARE to have a net start check-ins an hour or more before the net commences. Remember, the Net Control Station is devoting 1 to 3 hours of their time before, during, and after the net...so that everything is in order, for traffic, and logging. And, some Net Controls (like myself) are involved with nets on a nightly basis...either running them, or checking into them.

Note that if the check-ins are PAUSED at a certain point during the net, stations need to abide by those instructions from Net Control...such as if an Emergency Traffic situation develops during the net (and I've been in those situations more than once as Net Control). If the check-ins are paused as the net starts, if you wait right up until that moment to check-in, your check-in has to WAIT, until the check-ins are resumed. In the cases of Emergency or Priority Traffic, the regular net schedule, format, etc. goes by the boards, until the Emergency Situation is resolved...and that could last a few minutes to several hours.

Awhile back locally, a local club's regular traffic net was pre-empted by a Skywarn Severe Weather Net, and one ham "went ballistic"...thinking that "rag chewing and net comments took priority over severe weather"!! I suspect that he was always interfering with me when I got on the air, and that's one reason why I'm NOT a member of ANY Arkansas Ham Radio Club. Except for conducting selected area license exam sessions, all of my ham radio nets, involvement, etc. are OUTSIDE of Arkansas.

Emergency or Priority Traffic can break into the net at any time...and these are LIFE OR DEATH URGENCY to those individuals involved, such as severe weather warnings...or for "significant weather advisories". Also, if and when Net Control is asking for announcements, this is for items such as ham radio license classes, exam sessions, hamfests, demos, special event stations, question pool updates, etc. The Emergency or Priority Traffic, or Announcements, does NOT include details on how your day went, and to invite others to nets. On some nets, you WILL be called down by Net Control, if you violate this...and may be banned from the net itself!!

It's as if some stations feel that "it's an Emergency if they don't get Priority to pass their traffic first". To me,

if you are trying to check in early, just to see how many nets that you can check into in an evening (admittedly, several do meet at the same time)...or trying to see how many prizes, bonuses, awards, certificates that you can get for doing such, you are doing it for your ego, and are in ham radio for the wrong reason!! While SOME nets do offer such a certificate, that is more the EXCEPTION than the rule.

I am NOT going to make an exception for these (thankfully few) impatient amateur radio operators...it's as if trying to butt in line to a sporting event. Try that, and you could be seriously injured or killed by the anger of others. All of the other check-ins patiently wait their turn to pass traffic, make comments, etc. -- and to these, I say a hearty THANK YOU!!

If I personally can NOT run a net...be it for weather, health, internet, family, or other issues...I try to get a replacement. However, if that net is just "one where I check-in and make comments", if I have to miss that net for whatever reason, to me, IT'S NO BIG DEAL!! I'll just try again the next week.

So, please be patient on checking into a net...wait for the announcement from Net Control, no matter what band or mode...on the check-ins. If you cannot be patient in this regard...then you can either go to a net more to your liking...quit checking into nets entirely...or maybe you should sell your gear, turn in your license and find a new hobby. Again, there is far more to life than amateur radio, and checking into nets.

Swap-N-Shop

FOR SALE: Little Tarheel II, LT 32" whip, SDL Programmable Controller, HD 5 3/8 Trunk/ Hatchback mount. Wires for Antenna. \$355.00. **Ten Tec 1320**, 20 meter QRP kit. Kit is unassembled, complete. \$90.00 **Vibroplex Racer** on a wooden base, serial number 101215 . \$90.00

Contact Dave, WV8P at wv8p@roadrunner.com [01/2/18]

FOR SALE: Ten Tec Centurian Modle 422 Linear Amplifier wired for 220 VAC. 160-10 meters Clean full power output, Pair of 3-500Z amp is clean NON smokers house have factory box just don't need it any more downsizing new tube and all gone over by Tech that does work for DX Eng. Price \$1300.00.

Contact Richard, KA8OAT at 330-506-7068 [01/02/18]

FOR SALE: 30' Aluminum Free standing Tilt-Over Tower with Base Section. Ready to put up. Full specs can be found at http://www.universaltowers.com/pdf/standard_models/01-model-04-30.pdf \$300.00

Contact John, KD8MQ at 330-936-5021, or kd8mq@portcars.org [01/02/18]

FOR SALE: Yaesu FT-991 (not the "A" model) 160m through 70 cm, with MARS modification. Includes mic, power cable with Anderson power pole connector, manual, and original box. \$900.00 I can meet at the club site to demonstrated if desired.

Contact Rick, K8CAV at K8CAV@portcars.org [12/2/17]



Election of PCARS Officers

Tom, WB8LCD
PCARS Secretary
Past PCARS President
Past PCARS Vice President



This month on November 13th the PCARS annual election of officers will be held. I have a personal bias as to the type of officers I think PCARS should have and I want to share that with you because PCARS is a FANTASTIC Amateur Radio Club, and I'm hoping it continues into the future that way. But, without a committed group of club officers I'm afraid that PCARS could start down a path that many organizations have experienced. Let me sum it up in the beginning for you with a couple of quotes:

YODA - "Do, or do not. There is no try"

Winston Churchill - "It's not always good enough to do your best, sometimes its necessary to do what is required"

Thomas Edison - "The reason most people do not recognize an opportunity when they meet it is because it usually goes around wearing overalls and looking like Hard Work"

Anyone can be the officer of a mediocre club. It's going to take someone special to be the leader of a FANTASTIC club. Fortunately PCARS has a lot of members who have lots of special talents and abilities. We need you to step up and take a turn at doing something for your club!

The office of President is the most important because the president oversees the entire workings of the club and makes sure that all aspects of the club and it's programs are given the attention they need. The President sets the tone of the club and along with the vice-president sets the program of the club for the year, communicating that program to the membership.

The office of the Vice-President is probably the one that involves the most "hands on" work that is obvious to everyone – that of obtaining the meeting speakers and planning the activities of the club throughout the year.

The Treasurer has the responsibility of accounting for all of the incomes and expenses of the club and keeping the books of the club in good order and continually up to date.

The Trustees are responsible for the physical assets of the club. This has changed drastically since the club was first created due to the fact that we now have a usable club site with extensive furnishings. We want to keep it up as a place that all club members can be proud of and want to come to for on air activities and other events that the club sponsors.
***Disclaimer: the above descriptions are not a complete listing of all responsibilities and duties, just a general overview.

I would personally say that any of the above positions will require Vision, People Skills, Time and a "get it done" Attitude. I would also say that I hope there are enough of you out there that truly see the value of a club like PCARS and will give your time and talents to it's continued success! We can't do it without you.

So, if you have any further questions on the elected positions in PCARS – send me an email or give me a call at wb8lcd@portcars.org or 330-554-4650.

Having a FANTASTIC club like PCARS is labor intensive. Even if you don't get elected, there are plenty of positions that need to be filled and things to be done. We (the club in total) appreciate everyone who has a part in making PCARS and it's programs a success! Please, take a part. At the very least, participate in the nets, come to the club meetings, come to the activities that the club has. It's always a better experience when more members participate. You can always learn something and you can always show your appreciation for the people who are volunteering to serve YOU!

PCARS Patches & Stickers

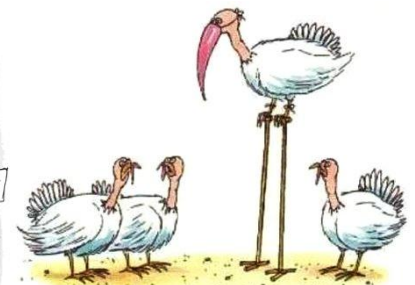
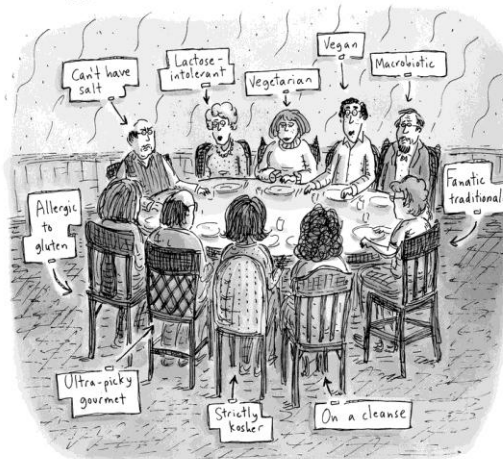
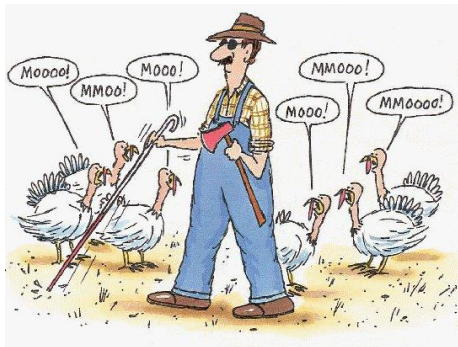
New PCARS logo patches (iron on) & stickers (stick on) are now available!! Put the patch on your hat, your shirt, your jacket and show off that PCARS logo!! The patch is about 3". The embroidery on the white patch is in Red, Black and Blue.



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: Amy, KD8SKL or e-mail her at: KD8SKL@portcars.org

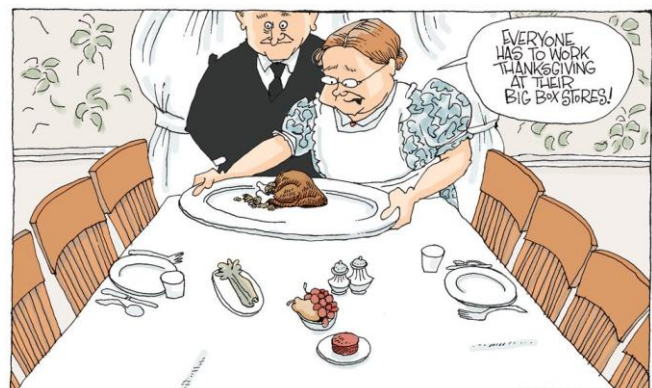
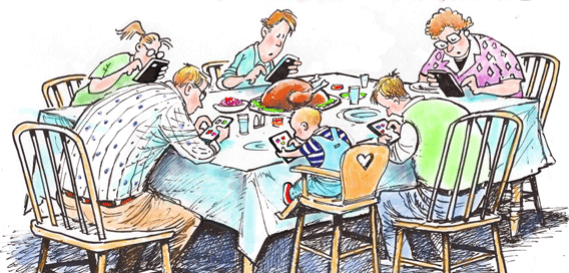


THE LAST THANKSGIVING

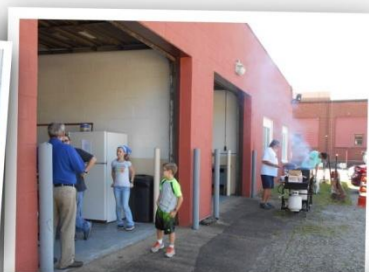


"He's got a point. Nobody eats a flamingo on Thanksgiving."

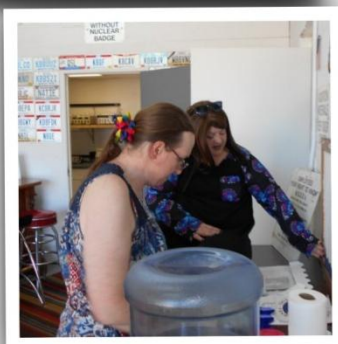
Heads bowed at THANKSGIVING



Open House - October 14th



PCARS



Open House
14 Oct 2017

PCARS Ham Radio License Plates Wanted

Dig out an old 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 59 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 Yahoo 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 Yahoo Group

Members are reminded that PCARS has a Yahoo Group dedicated to PCARS information. It's a great site to sign up for and get on the mailing list. Check out the PCARS Yahoo Group at:

<http://groups.yahoo.com/group/PCARS/>

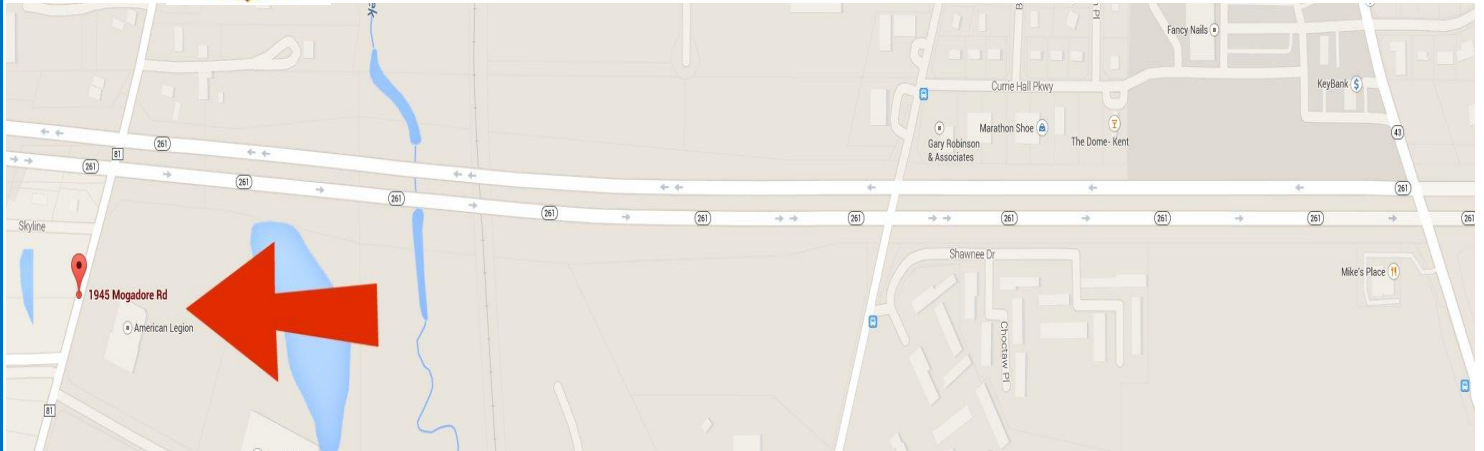


PCARS Meetings

The Portage County Amateur Radio Service (PCARS) 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)*

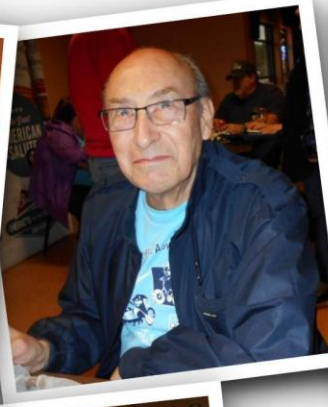


The menu consists of your basic burger / dog / chicken sandwiches, wings, fries, onion rings, and salads. There is also an appetizer selection as well. Adult beverages are available and costs are in line with what you would expect at most bar-restaurant facilities.

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.

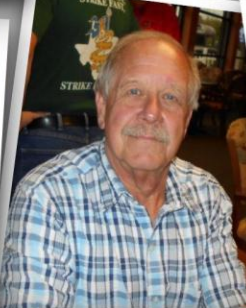
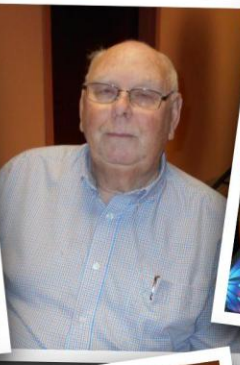
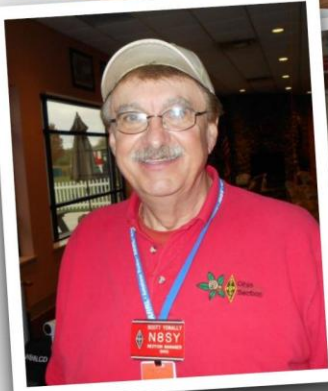
Photos from the PCARS Meeting in October





PCARS

9 Oct 2017





PCARS 9 Oct 2017

Important Dates This Month

Mon 6th Nov, 2017 will be... Nachos Day

Sometimes they're hot and spicy. Sometimes they're cheesy. Sometimes they make a mess everywhere. But one thing is certain: they're delicious, and a favorite in many parts of the world. Yes, we're talking about nachos. What food deserves its own holiday more than nachos? From the kitchens of Texas to the Rose Bowl Stadium, nachos have more than earned their fame. And their own day. Nachos Day.

The History of Nachos day

Nachos originated in Piedras Negras, Mexico, just across the border from Texas. One day in 1943, when the wives of some American soldiers stationed nearby came into his restaurant, the maitre d'hotel, whose name was Ignacio "Nacho" Anaya, had to make them something to eat. The problem was that it was evening, and already a few minutes past closing time, so Ignacio really didn't have enough ingredients left over to make any real, full dish—all he had were a few tortillas, some shredded cheese and some pickled jalapeno peppers. So he cut up the tortillas into pieces, sprinkled what else he had over them, and baked them for a few minutes before serving them to melt the cheese. The women greatly enjoyed the snack, and when they asked Ignacio what it was called, he answered "Nacho's especiales". The word of this new hot snack traveled fast through Texas and the Southwest. Ignacio Anaya himself went on to work at the Moderno Restaurant in Piedras Negras, which still uses the original recipe till this day. He also opened his own restaurant later on, called, "Nacho's Restaurant", in Piedras Negras as well. Anaya's original Nachos recipe was printed in the 1954 St. Anne's Cookbook. A few years later, a modified version of the original dish, with cheese sauce and prepared tortilla chips was marketed in 1976 by businessman Frank Liberto during various sporting events taking place in Arlington, Texas. This version became known as "ball park nachos".

How to celebrate Nachos Day

Obviously, there is not better way to celebrate Nachos Day, which falls on November 6th, than to cook up some good old-fashioned nachos on your own. Granted, there are many varieties and toppings, but here is a simple yet delicious recipe for homemade nachos:

Ingredients:

- (serves 4)
- 1 large (10-12 oz) bag of corn or tortilla chips
- 8 oz Jack cheese
- 8 oz Cheddar cheese
- A large jar of your favorite salsa
- A handful of pickled jalapeno slices



Preheat your oven to 200 degrees Fahrenheit. You could use a microwave, but the chips get much crispier from being in a real oven. Arrange the chips in an oven-safe dish. Spread the chips out—the more you spread them out, the more room there'll be for cheese and the less "disappointing" nachos there will be with next to nothing on them.

Next, grate the cheese, and mix both kinds well. Spread the grated cheese evenly over the chips. Spoon the salsa over the cheese-covered chips, and then sprinkle the jalapeno slices overtop of everything. Bake until the cheese has melted and starts bubbling, about 10-12 minutes, taking care to make sure the nachos don't start burning. After you remove them from the oven, WAIT about 1 minute before you dig it. It may seem torturously difficult to wait, but waiting is still much better than burning your mouth, tongue and throat with nearly boiling cheese. Serve while still very warm, and enjoy!

=====

Sun 12th Nov, 2017 will be... Pizza With The Works Except Anchovies Day

You can do irrefutably impossible things with the right amount of planning and support from intelligent and hardworking people and pizza. – Scott M. Gimple

There it is, sitting on your counter, fresh from the pizza parlor. You know you ordered it, and you're utterly in love with the idea of cracking open that cardboard container. Is there anything in the world that's as wonderful as fresh gooey pizza in your hand, loaded with all of your favorite top... wait... What is that sitting on top of your delicious pizza pie? It's salty and fishy and... *WHO PUTS ANCHOVIES ON A PIZZA?*



History of Pizza With The Works Except Anchovies Day

Pizza With The Works Except Anchovies Day came into existence from pure common sense. There's a lot of people out there who will, foolishly and naively, choose to order their pizza with 'the works', never thinking for a moment that there's a madman out there perfectly willing and capable of putting anchovies on a poor innocent pizza. The horror.

Let's ask one question first, though, where the heck did this crazy idea of putting anchovies on a pizza come from, to begin with? It certainly doesn't seem like anything a sane person would do to their pizza, so where is patient zero for this insanity? Near as we can tell it came from the Ancient Romans who first offered up a fermented fish topping known as Garum for their flatbreads.

They were offered as a kind of nostalgia back in the early days of pizza, and from there on they just kinda stuck around and never quite went away. Storing them is cheap, even though only about 50 out of every 18,000 customers actually order them on their pizzas.

How to celebrate Pizza With The Works Except Anchovies Day

It's pretty simple, isn't it? Right, there in the name you might say. Order a pizza with the works without anchovies, because only heretics and Bedlam Boys order anchovies on their pizza. The rest of us know that it's a delicious pizza pie deserving of only the most delicious toppings the world has to offer. Like pepperoni, green bell peppers, olives, mushrooms, Canadian bacon and pineapple, bacon, or anything else that has never been near the sea. Pizza With The Works Except Anchovies Day celebrates that most fantastic of pizzas.

DXCC Entities in North America - Answers

Answer to the quiz on page 14. North American DXCC entities are not countries:

Alaska Saba & St Eustatius Cocos Island Sable Island Desecheo Island (PR)
San Andres & Providencia Guantanamo Bay (USA) St Maarten Navassa Island (USA)
St Paul Island United Nations Headquarters

Net Night at PCARS Quiz - Answers

Answers to the Net Night at PCARS Quiz on page 34.

1 C	2 B	3 D	4 A	5 B	6 C	7 C
8 D	9 A	10 D	11 A	12 B	13 B	14 E
15 C	16 A	17 D	18 B	19 B	20 B	Bonus – REALLY???

ATTENTION: Net Night at the Club Site will be CANCELLED for November and December due to Thanksgiving and the Christmas / New Years holidays. Please enjoy the time with your families and we will re-start Net Night at the Club Site in January of 2018.

Thanks & 73



Parky, KB8UUZ
PCARS Newsletter Editor



THANK YOU to all of you that make contributions to this newsletter. Your help in making contributions is what makes this newsletter great. Winning the Great Lakes Division Newsletter award is a high point that I will always remember.

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 with plenty of activities. So chip in and send your report in to keep this newsletter great all throughout the year.

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

K8CAV, AC8NT, KB8UUZ, WB8LCD, N8SY, N8RLG, W8KNO, KD8MQ, KB6NU, W8PT, NO6E, WX1DER, K8ZT, KD8SKL, KA8TOA, KB8AMZ, the ARRL, American Legion, Hamradioweb.org, NOAA, and the World-Wide Web.

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





Portage County Amateur Radio Service, Inc. (PCARS)

Membership Application [] New [] Renewal

Name: _____ Call Sign: _____ License Class: _____

Address: _____

City: _____ State: _____ ZIP: _____

Phone: _____ E-Mail Address: _____

ARRL Member? [] Yes [] No ARRL Membership Expires Month: _____ Year: _____

Birthday: Month: _____ Day: _____ (don't need year)

A \$5.00 initiation fee will be assessed in the first year of membership for all new members.

Membership year is Jan 1 - Dec 31. Dues are due no later than Jan 31st. **If you don't pay by 1/31 - you are no longer a member.**

Dues are as follows: Example - Renewals are \$20 for Regular/Associate members, \$16 Senior \$10 Family per year.

Check One

Pro-Rated Dues Amount for NEW members:

- | | |
|---|---|
| <input type="checkbox"/> Regular Full Membership | Pay January 1 through May 31 = \$20.00 (full year) |
| | Pay June 1 through August 31 = \$15.00 (last 7 months) |
| <input type="checkbox"/> Associate Membership | Pay September 1 through November 30 = \$10.00 (last 4 months) |
| | Pay December 1 through December 31 = \$5.00 (last month) |
| <input type="checkbox"/> Regular Senior Full Membership (65+) | Pay January 1 through May 31 = \$16.00 (full year) |
| | Pay June 1 through August 31 = \$12.00 (last 7 months) |
| <input type="checkbox"/> Associate Senior Membership (65+) | Pay September 1 through November 30 = \$8.00 (last 4 months) |
| | Pay December 1 through December 31 = \$4.00 (last month) |
| <input type="checkbox"/> Family* Member | Pay January 1 through May 31 = \$10.00 (full year) |
| | Pay June 1 through August 31 = \$8.00 (last 7 months) |
| Call Sign of Regular Member: _____ | Pay September 1 through November 30 = \$5.00 (last 4 months) |
| | Pay December 1 through December 31 = \$3.00 (last month) |

(*Family = wife, husband, brother, sister, son, daughter, father, mother that is a licensed amateur radio operator and who's FCC license has the same address as the paid regular member's FCC license)

Checks can be made out to either "PCARS" - or - "Portage County Amateur Radio Service, Inc."

What are **YOUR** Ham Radio interests:

Signed: _____ Date: _____

Mail to: Portage County Amateur Radio Service, Inc.
c/o: Tom Sly, WB8LCD
1480 Lake Martin Dr.
Kent, OH 44240

Date Received:	<input type="radio"/> New <input type="radio"/> Renew
Initiation Fee: \$	+ Dues: \$ = Total \$
Paid: <input type="radio"/> Cash -or <input type="radio"/> Check	Check #
Date Voted:	Results:
<input type="radio"/> Database Updated	Member Number:

Rev. 26 Jan 2017

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

Meetings: 2nd Monday of each month at 7:00 PM

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.

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: K8SRR

PCARS thanks K8IV for making the repeater available to area hams and for PCARS activities

Check PCARS out on the web: www.PORTCARS.ORG -or- www.K8BF.ORG

~ 2017 Officers ~		2017 PCARS Appointments & Committees	
President - Rick Kruis - K8CAV Vice President - Jim Wilson - AC8NT Treasurer - Amy Leggiero - KD8SKL 3 Year Trustee - Robert Gurney - N8RLG 2 Year Trustee - Erica Pelz - AE8YL 1 Year Trustee - Ed Polack - K8IV Past President - Tom Sly - WB8LCD	ARRL Awards - DXCC WAS, VUCC, WAC	W8KNO	Joe Wehner
	ARRL Awards - WAS	KB8UUZ	Tom Parkinson
	Club Site Manager/Liaison	K8CAV	Rick Kruis
	Contest Coordinator	W8PT	Chuck Patellis
	EchoLink	K8SRR	Steve Randlett
	Field Day Chairman, 2018	WA8AR	Tony Romito
	FYAO Chairman	W8PT	Chuck Patellis
	Historian	KB8SZI	Peggy Parkinson
	K8BF Callsign Trustee	K8FEY	Bob Hewett
	K8BF QSL Manager	K8FEY	Bob Hewett
	Membership Chairman	WB8LCD	Tom Sly
	Net Control Manager	KA8TOA	Greg Ash
	Net Night - Club Manager	WB8LCD	Tom Sly
~ Meetings & Net ~	Newsletter Editor	KB8UUZ	Tom Parkinson
2 nd Monday of each month. 7pm Thursday night Club Net at 8 pm on 146.895	OSPOTA Chairman	KB8UUZ	Tom Parkinson
	Public Information Officer	WB8LCD	Tom Sly
	Secretary	WB8LCD	Tom Sly
	Tech, Gen & Extra Class Manager	AC8NT	Jim Wilson
	Volunteer Examiner Liaison	N8RLG	Robert Gurney
	Webmaster	KD8MQ	John Myers



**PCARS
Active
Volunteer
Examiner
Team
Members**

N8RLG	Robert Gurney
KB8UUZ	Tom Parkinson
WB8LCD	Tom Sly
N8XTH	Deron Boring
N8PXW	Jim Korenz
N8QE	Bob Hajdak
K8IV	Ed Polack
W8RID	Robert Davet
WA8CCU	Al Nagy
NR8W	Russ Williams
KD8RJV	Jim Corbett
W8EZT	Frank Tompkins
N8OQQ	Bryan Buchwalter
AC8NT	Jim Wilson
K8MSH	Mark Haverstock
KA8TOA	Greg Ash
KB3GXB	Jennifer Andrews

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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NLC

