



# The RADIOGRAM

When All Else Fails ~ Amateur Radio Works



December 2006 ~ Official Newsletter of the Portage County Amateur Radio Service, Inc. (PCARS) ~ Vol. 1 No. 11

~ 2007 Officers ~

President: - Tom Sly - WB8LCD  
 Vice President - Jim Aylward - KC8PD  
 Sec/Treasurer - Tom Parkinson - KB8UUZ  
 3 Year Trustee - Russ Anderson - KB8DPN  
 2 Year Trustee - Al Atkins - KB8VJL  
 1 Year Trustee - Joe Wehner - W8KNO

~ Meetings ~

2<sup>nd</sup> Monday of  
 every month. 7pm  
 at  
 Mike's Place  
 Routes 43 and  
 261 in Kent

~ Nets ~

Thursday nights  
 8 PM  
 on 146.895  
 PL Tones  
 110.9 Rootstown  
 114.8 Kent

PCARS  
 ARRL affiliated  
 April 20, 2006



## From the President

Let me be the first to wish you all a Happy Holiday Season! If you have not yet got your reservation for the Christmas Party to me - do it now! We expect to have a very nice and relaxing evening with a great buffet! We've enjoyed everything we've done together this past year. It's been a lot



of hard, but rewarding work, and now we're just going to enjoy an evening together with each other and with our families.

See you there

on December 11th.

Elections are over, no changes in the officers. I appreciate your confidence in us to get the job done for you. I especially appreciate the opportunity to serve the next year without all the QRM we had the first part of this year. I don't think of PCARS as my club, and I don't think of it as your club. It's ours. We all have the responsibility to make it great. If there's something that you think I'm overlooking - bring it to my attention. The more input we get from all of you, the more it will reflect what all of us want for the club experience.

We've tried to concentrate on having FUN. That will definitely continue in the coming year. If the ranks of amateurs are shrinking, if we are not getting younger people interested in our hobby, then it must be that they don't see the Ham community at large out there and having fun. We can change that and start the trend in the other

direction! We have an obligation to change that! To have Fun, you have to participate. But hey, I'm preaching to the choir here - this has been one of the most active clubs I've ever been associated with. Lets just keep the ball rolling, and like a snowball rolling down a hill, it's going to keep getting bigger and bigger and when they see how much fun you can have - they will come!

I've established a committee to look into the possibility of obtaining a repeater. No commitments have been made and the committee is charged with doing research into the need, the feasibility, the costs and the regulations. Any thoughts that you have on this subject should be directed to Bill, WB9LBI, for consideration by the committee. I can't say enough to publicly thank Tony, N8KW, and their group for graciously allowing us to use the N8KW repeater for our weekly nets! It's been a huge boost to us as a club to be able to meet weekly on the air. If you haven't been a regular check in, we've missed you.

Well, that's it for 2006. On behalf of all the Officers and Members of PCARS - let me wish everyone a safe and wonderful Holiday Season and Happy New Year.

Enjoy the holidays. Be ready to hit the ground running on January 1st!

Best to all! 73 For now,

**Tom - WB8LCD**



PCARS 2007 Officers

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## From the Vice President

Well that first PCARS anniversary has come and gone. The Christmas party on December 11<sup>th</sup> will give us a chance to celebrate the first year's accomplishments and start making plans for 2007.

PCARS lost one of its charter members in November. Roger Steiner - KB8JHS, passed away and he will be missed by all of us. Roger made a point of participating in most all of the club activities and rarely missed a meeting until his most recent illness. Roger is survived by his wife Sharon - KB8JHR, his son Roger II is KC0OEM.

We finished our first Technician class and eight of the nine students passed the exam on the last night of class.

Congratulations go to PCARS members Rena Martin-Wehner - KD8EPF, and Ken George - KD8EPG, as well the other new hams. Let's offer them whatever assistance they need to get on the air and have as much fun with this hobby as possible.

The next Technician course will begin at the Maplewood Career Center on January 9, 2007. If

you know anyone interested in taking the Technician test, have them contact me at [kc8pd@portcars.org](mailto:kc8pd@portcars.org) so that we can include them that evening. They can also contact Maplewood and register by phone prior to the start of the class.

The PCARS VE team will be offering testing on December 2<sup>nd</sup> at the Center of Hope. The plan is to offer Element Two - Technician, Element Three - General, and Element Four - Extra tests. Element One - CW

will also be available. In order to help us plan, if you or anyone you know may be interested in taking any of the tests please call me at home (330) 397-7979, or send me a note at [kc8pd@portcars.org](mailto:kc8pd@portcars.org).

I had the opportunity to be the speaker at the Geauga Amateur Radio Association (GARA) on



November 27<sup>th</sup> will also be attending the 20/9 Amateur Radio Club's December 12<sup>th</sup> meeting in Canfield, which is in Mahoning County. Both presentations dealt with my experiences in Mississippi after Hurricane Katrina. Tom - WB8LCD, Tom - KB8UUZ, and Chuck - K8CMP, were able to attend the GARA meeting, too. If you are interested in attending the 20/9 club meeting as a representative of PCARS, please let me know and we can make the trip together. Let's make a point of getting to know more about the other clubs in Northeast Ohio.

As always, we want to make sure that we are planning far enough in advance to give you plenty of notice about future events and programs. More importantly, we want to be sure that we are providing activities and information that **you** want. If you have any ideas or suggestions, please send me a note or give me a call.

**Jim - KC8PD**





## 2007 Election Results

The nominations and elections for the 2007 PCARS officers was held at the November 13th meeting. The offices of President, Vice President and Treasurer were unopposed and Tom - WB8LCD, Jim - KC8PD, and Tom - KB8UUZ were re-elected for 2007. The race for 3 Year Trustee was won by Russ - KB8DPN. Congratulations to the officers for 2007. Let's continue to make PCARS the best radio club around. As Tom - WB8LCD says "Let's have fun with Amateur Radio!"

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## Paper Chase

As the year comes to an end and we look back at the paper we have earned or wished we had earned, let us thank KB8UUZ for his POW/MIA Special Event. As Americans we do not like to talk about the other group, the KIA (Killed in Action). Some people do remember those that have given all that you can give. One of those people is Merrill Worchester. What does he do? Look!



Each year since 1992 the Harrington Wreath Company has provided 5,000 wreaths for the graves in Arlington National Cemetery at no cost to the United States. Mr. Worchester is the owner of the company. School children then coordinate their educational trips to Washington, DC to assist in placing the wreaths on the graves.

On a more festive note, the Christmas City Amateur Radio Club (Nazareth and Bethlehem, Pennsylvania) and the Delaware-Lehigh Amateur Radio Club will operate WX3MAS from 1400Z 12/9 - 0200Z 12/10 and from 1400Z 12-10 until 0200Z on 12/11.

You will find WX3MAS on 3.970, 7.270, 14.265, 21.365 and 28.465 for SSB and in the CW

portions of the bands at times. To claim your certificate, mail a 9x12" SASE to:

CCARC/D.L.A.R.C. WX3MAS  
Greystone Building  
Gracedale Complex  
RR 8  
Nazareth, PA 18064-9278



Merry Christmas & a HO! HO! HO!

**Joe - W8KNO**

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## Charlie the Tuner's HF Hi-Lites

Well, for most of us, Thanksgiving is behind us, even though all those turkey leftovers are still ahead of many of us. And Christmas is now less than a month away. So



what have you asked Santa for this year. If you're like me, you'll at least try to get something for your favorite hobby. In the mean time, I hope that some of you have

been taking advantage of any down time and have been trying to work some DX. It normally gets a little sparse during the winter months, but there are still little openings. 15M has been open for the past two weeks every day. Hopefully, the following should wet some appetites.

## IOTA

**C6 - Cay Sal Bank (NA-219) - one of the rarest** IOTA groups in North America, was activated for the first and only time by W5BOS/C6A in October 2000, when Lanny was able to operate for a few hours before bad weather conditions forced him to an early QRT. DL3OCH, DL2JRM, DL5SE and DL5YWM have announced their plans to be will be active (callsign TBA) from Elbow Cay early next year. They will be leaving Key Largo, Florida around 3 January and plans are to

be QRV until the 9<sup>th</sup>. They plan to have two stations active on 160-10 meters CW and SSB, and Bodo will also have an EME equipment for 70cm and 23cm contacts (skeds are welcome). QSL via DL3OCH, direct or bureau.

**C6** - C6ARI is the callsign that will be used for the January 3-9 activity from Elbow Cay (NA-219)

**J2** - A number of Italian Amateurs will be active as J20M and J20R from Moucha Island (AF-053), Djibouti on February 1-15. They will have three stations and will operate CW, SSB and RTTY on 10-160 meters. QSL via I2YSB, direct or bureau.

**KC4** - K2ARB will be active as KC4/K2ARB from Patriot Hills Camp (MN-01 for the Antarctica Award), Antarctica (AN-016) from November 3 to January 28, 2007.

**KH8** - A multi-national team of 12 experienced operators lead by YT1AD and co-lead by K3LP will be active on all bands and modes as N8S from Swains Island on April 3-16, 2007. This is one of those special DXpeditions, so hopefully PCARS members will be well represented in their log.

**VU7** - The Amateur Radio Society of India reports that most of the VU7LD team members met in Bangalore on November 1 to finalize details of equipment and logistics. The operation is confirmed to take place from Kavaratti Island starting on December 1.

## **DX**

**3B6** - SP9MRO, SP9PT and a few others are planning a 12-14 day DXpedition to Agalega (AF-001) in March. They plan to operate on all bands and modes using several stations.

**8Q** - MALDIVES - IK5ZUI is QRV as 8Q7LM for the next year. Also IZ6GJO will be active as 8Q7AN from Kihaad Island, Maldives (AS-013) on December 11-22. He plans to operate CW only on 40, 30, 20 and 15 meters. QSL direct to home call.

**A7** - QATAR - In celebration of the 15th Asian Games 2006, which begin in Doha on December 1, a number of Qatar amateurs are QRV as A7ORRY until December 15. They are active on all HF bands using CW and SSB. QSL via EA7FTR.

**OA** - PA3GFE will be again in Peru from November 3 until December 10. He hopes to be able to operate in his spare time on 40-10 meters especially on the lower bands.

**V7** - WD8CRT (<http://www.qsl.net/v73ns>) will be active again as V73NS from Kwajalein (OC-028), Marshall Islands. He should start around January 5 and remain there for at least two years. Expect him to operate mostly CW on 160-6 meters. QSL via bureau or direct to Neil Schwanitz, Box 8341, APO, AP 96557, USA.

**VP8** - ANTARCTICA - VK6CQ is QRV as VP8PJ from the Summer Base Camp at Patriot Hills, Ellsworth Land until December 10. He is there on work assignment, so he is active in his spare time. He is usually active using CW on 40, 30 and 20 meters. QSL via DL5EBE.

**XT** - F5NQL reports that XT2C is the callsign issued to the January 6-20 expedition to Burkina-Faso.

**YB** - YC8TDE will be active (mainly on 40 and 15 meters SSB) as YC8TDE/p from Ternate Island (OC-145) until December 15. QSL via home call

**ZD9** - TRISTAN da CUNHA - ZD9BCB is QRV from Gough Island, IOTA AF-030, until September 2007. In addition, ZD9BV is QRV from Tristan da Cunha, IOTA AF-030, and is normally active starting around 1730z on 20, 17 and 15 meters. QSL direct.

So there we are. There are some really great opportunities to work some very rare places in the next 6 months. Get on the air and have some fun with our hobby. Until next month, 73.

**Chuck - K8CMP**

## *Center of Hope*

The Center of Hope has been terrific about allowing PCARS to use their building for a variety of events and activities. At our last club meeting we took in food and cash donations. Thanks to everyone who contributed.

On November 16<sup>th</sup> PCARS president Tom - WB8LCD, delivered a car full of food and nearly \$300.00 in donations to Daryle Fullum, the program director at the Center of Hope.

Daryle told Tom how much the donations are appreciated, particularly during the holidays.



Hundreds of Portage County residents will receive holiday food baskets and turkeys at the Center and your donations will help make those gifts possible.

Thanks again for your help in demonstrating the community commitment of the amateur radio operators in the Portage County area!





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## **KB8JHS/sk**

*Roger Steiner - KB8JHS, Charter member #21 of PCARS became a Silent Key on November 17th. Roger lost a courageous 8 year battle with cancer.*



*He'll be missed by many of us. His humor and handle bar moustache were two of the things that people will remember. He enjoyed this hobby of ours, and was really proud the day his son, Roger II (KC0OEM) became a*

*ham. Roger & Roger II managed to talk from Hiram, Ohio to Monticello, Minnesota on HF, and Roger really enjoyed those QSOs. He was always there to lend a hand and help out. We'll miss him. Roger's wife Sharon is KB8JHR.*

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## **WRECS VE Test Sessions**



Our neighbors to the north - the WRECS group have their 2007 VE Test Sessions scheduled for: January 27, April 28, July 28 and October 27th in Bentleyville - contact

WRECS for more info.

***Paul - N8QZ - President - WRECS***

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## **PCARS Field Day 2006 Results**

The ARRL posted the 2006 Field Day results. The Portage County Amateur Radio Service, Inc. (PCARS) - KD8CKP finished with **2,232** points and placed **14th** out of 21 in the Ohio section stations in the **3A** category. We had a total of **455** QSO's. **Not a bad first time out!** Hope your all looking forward to Field Day 2007!!

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## **Mark Your Calendars**

On the calendar for upcoming meeting topics & activities are:

- o **December 2<sup>nd</sup> - PCARS VE testing** at the Center of Hope at 1000 hours

- o **December 11<sup>th</sup> club meeting - Christmas party**
  - o **December - Santa on the Air**
  - o **January 8<sup>th</sup> club meeting - Amateur Radio Satellites**, video
  - o **February 12<sup>th</sup> club meeting - National Traffic System - Bill - WB9LBI**
  - o **February 24<sup>th</sup> - Freeze Your Acorns Off**
  - o **March 12<sup>th</sup> club meeting - Introduction to Contesting** (tentative)
  - o **March 24<sup>th</sup> - Homebrew Antenna Workshop** (date tentative)
  - o **April 9<sup>th</sup> club meeting - Military Affiliate Radio System (MARS)** (tentative)
  - o **May 14<sup>th</sup> club meeting - DXing**
  - o **May 26<sup>th</sup> - Antenna setup day** at Ravenna City Park
  - o **June 11<sup>th</sup> club meeting - topic open**
  - o **June 23<sup>rd</sup> and 24<sup>th</sup> - FIELD DAY!**
- 

## **Whiskers & Santa - W8S**

### ***Santa On The Air***



**KD8EPF & W8KNO**

PCARS will sponsor a "Santa on the Air" special event this year. PCARS obtained the special call sign of W8S (temporarily assigned to KD8CKP).

The event will occur on the 20th and 21st of December from 6:30 p.m. until whenever. On the 20th, Santa will be operating on the W8VTD repeater system (WARA) in Trumbull County. On the 21st for PCARS via the N8KW repeater

(146.895 pl 110.9) in Portage County.

To make the event more personal, you can let Santa know at W8KNO@portcars.org your call sign, the children's names, ages and any other item of information that will make the event more interesting. If the children listen closely, they may hear the bells on the reindeer harnesses jingle.

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## EmComm

Confusion reigns! In case you don't receive the ARRL's e-mailed newsletter or its occasional news releases, you may still have heard that on November 15<sup>th</sup> the FCC published its proposed rule changes in the Federal Register. That means that the rules take effect thirty days later on December 15<sup>th</sup>.

In between the time that they were first released for comment (which was in mid October) and the publication date, it seemed that the only major reaction had been to the proposed "refarming" of the eighty and forty meter bands. With only a month from release to publication one other significant issue became apparent, and it has real consequences for the emcomm community.

In case you missed the last club meeting and this writer's presentation on Winlink 2000 and Airmail, they have become the *de facto* standard for digital data communications on the HF bands. The ARRL's ARESCOMM has recommended the adoption of Winlink as a standard mode and MARS has already incorporated Winlink into its service.

On HF the best data speeds are achieved by using the digital mode of Pactor III which was developed by a German company which requires that users be licensed by the company and, by necessity, use its modems which are the only TNC's on the market that can handle Pactor III. The modems and the software are a really robust combination that are great for weak signal/high noise environments and move data at the highest speed possible on HF.

Well as a result of either oversight or design, those responsible for drafting the new regulations managed to regulate Pactor III out of existence. How? Through a redefinition of the J2D mode and a restriction of its band with to 500 Hz.

Now this may have all been inadvertent. But there was certainly a fair amount of speculation in places like the Winlink 2000 Yahoo group about whether this was actually an intended consequence of the rule change that had been promoted by anti-

Winlink forces. Ah, the battles over spectrum. They sure can make people suspicious.

Even more interesting to some (including myself), was the debate as to what the rule actually meant, whether it would apply to Winlink, etc. Hey, I'm the lawyer in the group and I still couldn't figure out the regulatory language.

Not only was the ARRL requesting feedback on the rules but hams were being encouraged to write to the FCC commissioners, which I did, as well as to FCC staff who had a role in the drafting and publication of the rules. Others were encouraging letters to members of the House and Senate however in the short run members of Congress are never inclined to intervene in the regulation writing process, particularly for an issue as obscure and confusing as this one.

So it was a pleasant surprise to see this news release from the ARRL on November 22<sup>nd</sup>:



*"FCC Working to Correct Error in Omnibus Rules Change Order (Nov 22, 2006)*

*-- In the recently released R&O 04-140 -- the "Omnibus" rules changes affecting the Amateur Radio Service -- the FCC inadvertently limited J2D emissions to 500 Hz bandwidth. We are happy to report that the FCC is working on an erratum to correct the J2D error. While nothing is certain until the erratum is actually released, it is fair to say that the FCC recognizes the problem and intends to fix it prior to the December 15 effective date of the new rules. We will post further information on the erratum as it becomes available."*

With any luck this may mean that the FCC was actually listening to all of those comments and complaints and may actually take action before Pactor III goes off the air on the fifteenth. This is not just an emcomm issue. World-traveling sailors with ham licenses have relied on Sailmail, similar to Airmail, to stay in touch while on the high seas. They could lose this vital service if the rule is implemented.

We will have to wait and see if this gets worked out in the meantime. If not, then my SCS modem may make a RTTY guy out of me.

If you missed the presentation last month, make sure to take a look at the information available at [www.winlink.org](http://www.winlink.org) about Winlink 2000. Keep in

mind that the VHF and UHF version of Winlink, called Packlink, is much more accessible and, for most hams, virtually free. It can be operated via a soundcard and the appropriate software. You don't even need a TNC!

There is even an online course available for free at [http://groups.yahoo.com/group/LOADING\\_WL2K\\_USER\\_PROGRAMS/](http://groups.yahoo.com/group/LOADING_WL2K_USER_PROGRAMS/) that will walk you through the whole process, even downloading and installing the software. Another useful site called Winlink for Dummies can be found at

<http://www.winlink.org/CLASS.HTM>.

Check it out and learn more about this evolving mode of operation.

**Jim – KC8PD**

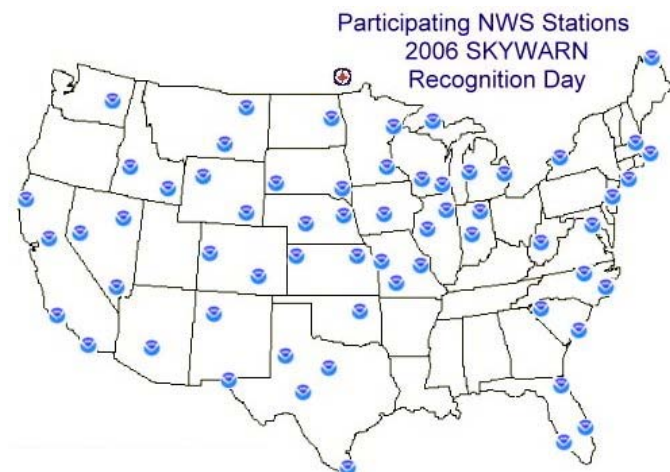
### ***Skywarn Recognition Day - Dec 2nd***

The 8th annual SKYWARN Recognition Day (SRD) special event will take place Saturday, December 2, 2006. SKYWARN Recognition Day is an event co-sponsored by the National Weather



Service and the ARRL, and it is the National Weather Service's way of saying "thank you" to

Amateur Radio operators for their commitment to helping keep their communities safe. During the 24-hour special event, amateur radio operators will visit their local National Weather Service (NWS) office, set up Amateur Radio stations, and work as a team to contact other hams across the world.



"Ham radio operators volunteering as storm spotters are an extremely valuable asset to National

Weather Service operations since they are cross-trained in both communications and severe storm recognition", says Scott Mentzer, organizer of the event and Meteorologist-In-Charge at the NWS office in Goodland, Kansas.

Details: SKYWARN Recognition Day will be held from on December 2, 2006, from 0000 UTC to 2400 UTC. The object is stations to exchange QSO information with as many National Weather Service Stations as possible on 80, 40, 20, 15, 10, 6, and 2 meter bands plus the 70 centimeter band. Contacts via repeaters are permitted.

The exchange should include call sign, signal report, location, and a one or two word description of the weather occurring at your site ("sunny", "partly cloudy", "windy", etc.). NWS stations will work various modes including SSB, FM, AM, RTTY, CW, and PSK31. While working digital modes, special event stations will append "NWS" to their call sign (e.g., N0A/ NWS). The National Weather Service will provide event information via the internet. Event certificates may be requested from: SKYWARN Recognition Day, 920 Armory Road, Goodland, KS 67735. Simply enclose a self-addressed stamped envelope with a list of NWS stations worked. Separate NWS stations will also issue individual QSL cards. To learn more, check out the Web site: <<http://hamradio.noaa.gov>>.

***From ARRL***

### ***Red Cross Background Checks***

I doubt if anyone believes the Red Cross should blindly accept just anyone who comes in off the street as a trusted volunteer. Most people who volunteer are fine, upstanding citizens who have the highest motives; however, there are those among the public who are . . . well . . . dishonorable. Just imagine what injury folks with perverted ideas of honesty could do to disaster victims and their property during relief operations. The Red Cross has responded to the risk of having dishonorable people try to infiltrate its ranks by turning to background checks for all employees and volunteers.



I believe the Red Cross has the right and duty to keep unscrupulous people from joining its ranks. I also believe it has the right to require, somehow, background checks for all its personnel -- paid or



not. The Red Cross needs a way to determine the honesty of its workers as best it can. When it comes to most volunteers, this is where I draw the proverbial line. Requiring background checks for criminal activity is thing. Requiring permission to do credit checks and more is just too much for non-employees, but this is precisely what Red Cross is doing.

As one ham who is a long-time officer in his local Red Cross Chapter said, "The Red Cross is requiring volunteers to grant permission for more than just a criminal background check, they are also requiring permission to draw a consumer and/or investigative consumer report on the volunteer. This would include a criminal background check, credit check and a mode of living check."

The ham Red Cross Chapter official? He authorized his superiors to do a criminal check, only. He still has his position at the Chapter.



Incidentally, some amateurs have expressed concern that MyBackgroundcheck that does the checking will have access to all of the credit and personal information on persons who have been checked even though Red Cross says they do not want it, themselves. Frankly, I'd trust the Red Cross folks that I know long before I'd trust many other people.

My suggestion: Read carefully what is being demanded and be sure you are willing to agree with it. If you agree, by all means give your consent to the full background check. If you don't agree, don't give your consent. You might even try sending a letter to your local chapter giving consent for them to do a criminal check but withholding your consent to other checks. Use your personal judgment.

**Jim Weaver - K8JE**  
**Director Great Lakes Division**

### **Swap-N-Shop**

FOR SALE: **Astron RM-35M**, rack mount power supply. Separate Voltage and Amp meters. 35 amp peak, 25 amp continuous. \$100 or best offer. contact: Tom by e-mail at [wb8lcd@portcars.org](mailto:wb8lcd@portcars.org)

## **Happy Birthday PCARS Members**

Five PCARS member have a birthday in December:

<b>KC8PD</b>	<b>Jim Aylward</b>	<b>12/04</b>
<b>N8HU</b>	<b>Hue Maughan</b>	<b>12/09</b>
<b>KC8RKV</b>	<b>Jim Godfrey</b>	<b>12/12</b>
<b>N8EQJ</b>	<b>Edward Polack</b>	<b>12/19</b>
<b>KC8RJR</b>	<b>Errol Jordan</b>	<b>12/20</b>

**Editors Note:** My error (looked at wrong listing) for November and I left names off the birthday list by accident. The following PCARS members celebrated their birthday in November:

<b>KC8ZGL</b>	<b>Tom Mahon</b>	<b>11/05</b>
<b>KB8UUZ</b>	<b>Tom Parkinson</b>	<b>11/14</b>
<b>KC8SYD</b>	<b>Ted Kost</b>	<b>11/21</b>
<b>N8WLE</b>	<b>Nick Rothermel</b>	<b>11/22</b>
<b>AB8VX</b>	<b>James Bailey</b>	<b>11/25</b>

## **"Omnibus" Amateur Radio Report and Order Takes Effect December 15**

"Omnibus" Amateur Radio Report and Order Takes Effect December 15 With publication in the Federal Register November 15, the long-awaited changes to the amateur rules are set to take effect 30 days later, at 12:01 AM EST December 15. The so-called "Omnibus" Amateur Radio proceeding, WT Docket 04-140, includes a significant expansion of the 75 meter phone band and a variety of other changes. The highlights:



- \* For Amateur Extra class licensees, the 75 meter phone band will start at 3600 kHz, while Advanced class licensees start at 3700 kHz and Generals at 3800 kHz. The high end of the CW/RTTY/Digital band is now 3600 kHz (although CW is allowed on the entire band).
- \* On 40 meters, Amateur Extra and Advanced licensees will be able to operate phone beginning at 7125 kHz, while Generals start at 7175 kHz. The top end of the CW/RTTY/Digital band will be 7125 kHz (although CW is allowed on the entire band).
- \* There are no changes to the 20 meter band.
- \* On 15 meters, the General class phone band now starts at 21275 kHz.



- \* On 10 meters, Novice and Technician Plus licensees can now operate CW/RTTY/Digital from 28000 kHz to 28300 kHz.
- \* In addition, Novices and Tech Plus licensees can use CW only on the same frequencies as General and Advanced licensees on the 80, 40 and 15 meter bands: 3525 kHz-3600 kHz; 7025 kHz-7125 kHz and 21025 kHz-21200 kHz.

The Report&Order as published in the Federal Register clarified two items that had raised some concerns when it was first released October 10: That the 80/75 meter band split applies to all three IARU Regions, and that FCC licensees in Region 2, which includes North America, can continue to use RTTY/data emissions in the 7075-7100 kHz band.

Several controversial aspects of the proceeding are still to be resolved, although the FCC is working on an erratum for the inadvertent elimination of J2D emissions of more than 500 Hz bandwidth. The Commission intends to release the erratum by the December 15 effective date.

The FCC also took several other miscellaneous actions.

### *From ARRL*

*Editor's Note: Page 15 of the newsletter has the new band chart published by ARRL - effective December 15th*

## **Hamfest Calendar**

**28 Jan 2007** - Tusco ARC - <http://noard.com/tuscoarc.htm>  
Talk-In: 146.730 (PL 71.9) - Contact: Gary Green, K8WFN -  
32210 Norris Road - Tippecanoe, OH 44699 - Phone: 740-  
922-4454 - Email: [tuscofest07@hotmail.com](mailto:tuscofest07@hotmail.com) - Wallick  
Auction House - 965 North Wooster Ave - Strasburg, OH

## **ARRL Dues Rebate to PCARS**

Now that we are affiliated, one of the perks for the club is when you re-new your ARRL dues through the PCARS, the club gets to keep \$2. Or, if your a new ARRL member the rebate is \$15 for PCARS.

A new member is defined as any individual who has never been a member of ARRL or any individual who has not retained a membership for two or more calendar years prior to the application submission. Family, Blind or 21-and-under discounted memberships are not applicable for any discount. So, when it's time to re-new, or if you join the ARRL - do it through the club, so PCARS can cash in on that benefit.

## **K8CMP Antenna Project**

On Saturday, November 18<sup>th</sup>, Parky - KB8UUZ, Joe - W8KNO, and myself made the road trip to Parkman in Geauga County to lend a hand to Chuck - K8CMP, who needed to mount his tri-band beam on his recently installed tower.



Chuck placed the tower next to his garage for additional support and then had decided to add a Hazer tram system.

Unfortunately, the Hazer could not be lowered below the roof line of the garage to install the beam because of the sizable lengths of the elements. He had already installed his six meter beam but there was no way, despite his best efforts, that he could wrestle the beam up onto the garage and safely hold it in place while tightening the clamps.

His solution? Rent a four-wheeled man hoist with a forty foot boom. Chuck doesn't mess around. There was some suspicion among his ground crew that this had all been an excuse so that he could drive the lift around and ride in the bucket. He looked right at home in it.



With some carefully placed sheets of 3/4 inch plywood, Chuck was able to maneuver the lift over the mushy ground and into a position where the beam could be lifted up onto the bucket and hoisted

into place. Joe proved his utility in close quarters (maybe from that Navy experience) and managed to keep the beam properly positioned while Chuck clamped it in place. All that



was left for Chuck at that point was to straighten a slightly bent rear reflector.

Chuck's XYL Jean treated us all to lunch and we got a tour of Chuck's shack. He is not kidding when he says that the beam should be a huge improvement over his sloper that runs up a tree in his front yard.

Still remaining to be completed when we left was the installation of the guy lines, coax and control cable. With any luck that great weather over the Thanksgiving weekend was all that Chuck needed to wrap it up.

**Jim - KC8PD**

## **N5VLZ Sends his Good Wishes**

The following e-mail came in from our Echo-Link friend in Little Rock, AR:

Subject: PCARS First Birthday  
From: "Daryl Stout" <wxlder@yahoo.com>  
Date: Tue, November 14, 2006 3:24 am  
To: PCARS@yahoogroups.com

Congratulations to the club, and thanks for having the nets via Echolink... for check ins from "around the corner to around the world". Too bad one can't download cake via packet (hi hi). 73!!

**Daryl Stout, N5VLZ  
Little Rock, Arkansas**

***Editor's Note:** Daryl was just about to give up with Echolink due to a problem with his sound card settings. He sent out a few emails and got some advice on where to get more clues to fix his problem. Seems his new digital camera software grabbed and changed all the sound settings without telling him. The following came back from Daryl and you may want to file this one away in case it happens to you:*

A fellow central Arkansas ham radio operator, Bill Shryock, N5HQ, told me of a neat program, in light of my recent soundcard issues and Echolink. It's called QuickMix, freeware for Windows 95 up through XP. QuickMix allows you to load and save your sound card settings. It will preserve your settings by allowing you to re-load your sound card settings before you launch Echolink. You can download QuickMix here:

<http://www.ptpart.co.uk/quickmix/index.htm>

I'm sure this will help other hams with their setups. 73,

**Daryl - N5VLZ**

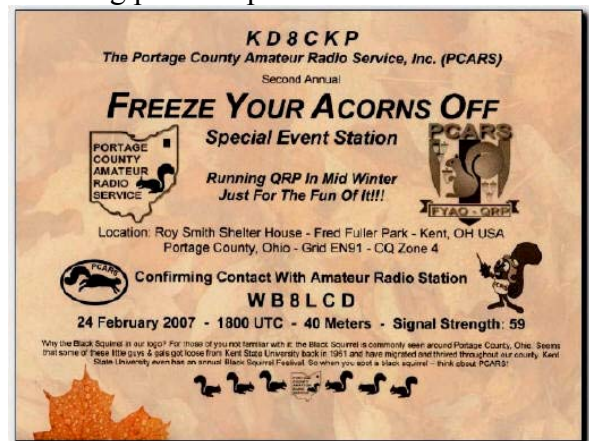
## **FYAO Special Event**



Portage County Amateur Radio Service, Inc. (PCARS) 2nd Annual "Freeze Your Acorns Off" (FYAO) QRP Special Event Station KD8CKP will be active in the General areas of the 15, 20 and 40 meter bands.

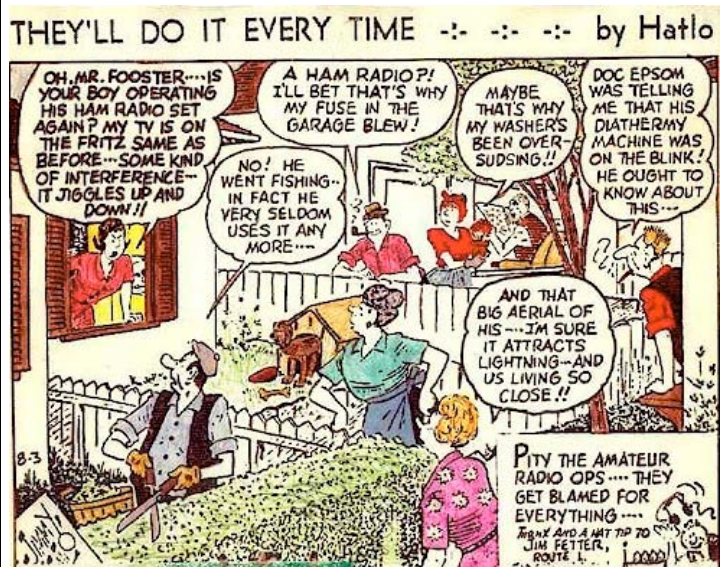
Join us on Saturday - Feb 24, 2007 - We'll be on the air from 10:00 am EST until 6:00 PM EST

Our transmitters will be at the Roy Smith Shelter at the Fred Fuller Park in Kent, Ohio in the middle of WINTER. Yes, we'll be braving the cold snowy weather of North Eastern Ohio to set up QRP stations using portable power and antennas.



A beautiful color (suitable for framing) 8 x 10 certificate will be available if you send your QSL cards and a SASE to the club call trustee - KB8VJL.

So, from the comfort of your warm radio shack - give us a contact while we're out freezing. Your support will be very much appreciated!



**Sent in by KC7SXN**



## New Technicians

Congratulations to the nine new hams in Portage County (and elsewhere) who successfully passed their Technician license test on November 7<sup>th</sup>. This was the final class date for the PCARS Tech Class held at the Maplewood Career Center. Classes started on September 19<sup>th</sup> and went for 8 weeks total. A VE test session was held on Nov. 7<sup>th</sup>

**Volunteer teachers** were Russ Anderson – KB8DPN, Tom Parkinson – KB8UUZ, Jim Aylward - KC8PD and Tom Sly – WB8LCD.

**The VE team** consisted of Russ Anderson – KB8DPN, Tom Parkinson – KB8UUZ, Jim Aylward - KC8PD, and Carl Capps – N4TIE.

The new hams are:

**KD8EOY Dean French - Hudson**  
**KD8EOZ Joe Stribrny - Hudson**  
**KD8EPA Dan Porcase - Ravenna**  
**KD8EPB Fred Hagat - Ravenna**  
**KD8EPC Dustin Pearson - Medina**  
**KD8EPD David Vitale - Kent**  
**KD8EPE John Hart - Ravenna**  
**KD8EPF Rena Martin-Wehner - Hiram**  
**KD8EPG Ken George – Ravenna.**

There will be a new Technician license class starting on January 9<sup>th</sup>. Anyone interested in participating as a volunteer teacher should contact Jim – KC8PD. We'd like to have another good class, if you know anyone who is interested in getting their license, this is a great way to get it. Please get the word out to them!

## PCARS Meetings - Mike's Place

The Portage County Amateur Radio Service, Inc. (PCARS) meets on the second Monday of every month at Mike's Place - 1700 S. Water St. – Kent.

Meetings start at 7 PM sharp and all are invited to attend. You can find out a whole lot more about Mike's Place on the web at:

**[www.mikesplacerestaurant.com](http://www.mikesplacerestaurant.com)**

You can look over their entire menu and see some interesting stuff on the web site. Check it out!

## December Contest Calendar

December, 2006	
EU-PSK-QRP Contest	2000Z-2400Z, Dec 1
ARRL 160-Meter Contest	2200Z, Dec 1 - 1600Z, Dec 3
Wake-Up! QRP Sprint	0400Z-0429Z, Dec 2 & 0430Z-0459Z, Dec 2 & 0500Z-0529Z, Dec 2 & 0530Z-0600Z, Dec 2
ARRL 10-Meter Contest	0000Z, Dec 9 - 2400Z, Dec 10
NA Winter Rally	0000Z, Dec 10-0700Z, Dec 18
NAQCC Straight Key Sprint	0130Z-0330Z, Dec 13
Int Naval Contest	1600Z, Dec 16-1559Z, Dec 17
Run for the Bacon QRP	0200Z-0400Z, Dec 18
RAC Winter Contest	0000Z-2359Z, Dec 30

## Center of Hope Holiday Food Drive

While many PCARS members have become familiar with the Center of Hope as the site of some of our activities, including the Jamboree on the Air and our fox hunting antenna construction activity. The Center has graciously opened its doors to our members for these activities and also provided some of the food for Field Day.

What you may not know is the Center of Hope is a program of Family & Community Services, Inc., that was founded over ten years ago by the late Sister Jordan. It provides hot meals and distributes food and home products to thousands of our county's less fortunate residents every year.

As winter approaches, the staff at the Center of Hope face the enormous task of trying to help brighten the Christmas holidays for the Center's clients. You can imagine how distressful it could be to not be able to provide a holiday meal for your family.

This is PCARS opportunity to return the favor to the Center. Let's assist the Center of Hope in meeting its goal of helping as many families as possible

at Christmas. We are asking that all PCARS members who attend the December meeting to make a donation of food or, if you wish, a financial contribution to the Center of Hope. Donations are tax deductible because the Center is part of a 501(c)(3) organization.





Let's show how generous the spirit of amateur radio operators can be by offering our support to an organization that helps so many families in our community! Any items or funds donated at a meeting will be delivered the next day to the Center of Hope.

**Jim - KC8PD**

**Editor's Note:** See the other article (page 4) in this newsletter about the donations PCARS collected at the November meeting and presented to the Center of Hope

## ***You Might Be Addicted to Ham Radio If..... (part 3)***

The first question you ask the new car dealer is, "how much current can the alternator deliver"

If you buy a brand new car based on the radio mounting location, antenna mounting possibilities and number of cigarette lighter outlets.

If you've answered the question "what's your address?" with your grid square and GPS coordinates.

If the local bird population thinks your playing a cruel joke on them by turning your car into a porcupine like that.

If your neighbors start looking out their curtains at your house thinking your some sort of spook.

If your wife sits in the back seat and your radio gear rides in the front seat while driving.

If you plead with your XYL with the words, "I promise, Honey, just one more antenna. Honest! I only need one more antenna, and I won't ask for another one again, ever!"

When you always go out to garage, open the door, and turn on the radio when it storms.

A lightning storm hits and takes out 6 computers, network equipment, cable modem, tv, vcr, and dvd player, and all you can think about is your ham radio equipment!

You trade radios more often than you do cars.

Your car/truck license plate starts with a K,N,W, or an A, and has only one number in it. (U.S. only)

Your friend asks for a ride, and although it's just you and him in the car, he has to sit in the backseat because there's no room in the front.

You give your call sign at the end of a Nextel conversation (yup, once in a while)

**Russ - KB8DPN**

## ***November Field Trip - Site Visit to Channel 67 - WOAC***

On Wednesday, November 15<sup>th</sup>, PCARS members had the opportunity to tour the transmitter site for WOAC – channel 67, located in Brimfield, Ohio. Although it was a very nasty evening (cold and rainy) I was joined there by Russ Anderson – KB8DPN and his harmonic, also Russ, Mike Lee – KB8VSQ, and Terry Morris – KB8AMZ. Our tour guide was station manager Glenn Foldessy – KA8CMD.



The transmitter building is located about 300 yards off Sherman Rd. It's an unassuming block building at the bottom of a 500 ft tower. Inside are a couple of small offices and the room that houses the transmitting equipment. The WOW factor really pickup up once we went through the double steel door to the transmitter room!

There are actually two transmitters, side by side



**Glenn Foldessy – KA8CMD**

– one for analog and the other for digital. The rack housing the equipment was approximately 20 long by 6 feet deep by 6 feet tall. Everything starts at a 1 watt exciter and then goes through several stages of amplification to reach the final 5000 Kw ERP signal that leaves the site at 789.25 MHz! Other racks in the transmitter room include the operation and monitoring panels, the main programming control (everything transmitted is produced off-site), and the UPS.

The signal is sent to the antenna via a wave-guide transmission line, one each for the analog and digital signals. One wave guide is approximately 6" diameter and the other is approximately 12x3" rectangular. All shiny copper – very impressive to look at! Up in the ceiling is a dummy load capable of 1 million watts. Everything is liquid cooled.

Out behind the building are the cooling system units that the liquid coolant flows through with fans as needed. Also outside is the Cummins diesel / Onan Genset for emergency power. The UPS only needs to work for about 15 seconds before the genset comes online!



One more item of interest – tucked away in a corner is a 19" 6-foot rack that contains the N8BHU repeater on 444.30 Mhz. Their antenna is at about the 490 foot level on the tower. If you don't think a repeater on 440 can give good coverage, check this one out!

Everything was very impressive. Glenn answered any questions and was a most gracious host. Thank You Glenn! Glenn has had many years of broadcast experience. If you get a chance to talk with him I'm sure you'll have a chance to learn something useful.

**Tom - WB8LCD**

## PCARS Thursday Net Information

The 2-Meter net continues to go strong, and I thank you all for participating. As of the time I'm writing this (11/24) we've had a total of 47 nets! Five more and the first year goes into the archives. Since my last report, the total number of check-ins has grown to 850! Please, try to check in for the next 5 nets and let's make sure we go over 1000 for our first year. I know I'm tardy on some certificates, I'll plan to dispense them at the January meeting, or mail it to you if you are not there.

The week before Thanksgiving, I took a check in from VK5ND – Keith in Australia via echo-link.

You never know who might pop in from where! Makes it a lot of fun to be the net control station.

Speaking of net control station! I need someone to step up and take the net on December 7. This could be your night! Go ahead, give it a try. I'll also need to start filling out the schedule for the first couple months of 07, if there's a week you know you could handle it, let me know and I'll get you confirmed. Since this is a PCARS net, I would prefer that the net control operators be a PCARS member. Also, if you would like to be a net control operator, please check in a few times first and listen to the net to get a feel for how things go. Other than that, I'd look forward to hear you as one of the net control stations!



12/07	open
12/14	KB8UUZ
12/21	KB8DPN
12/28	KC8PD

Everyone is encouraged to check in, and, to try out being a Net Control Operator.

**Tom - WB8LCD**

## Eyeball to Eyeball - KC8RKV

*This is the first of a new column that I will be trying to get out every month. The purpose of Eyeball to Eyeball is to put the spotlight on one of our members each month and get an interview to find out the what, where, when, and why of their involvement in Amateur Radio. Oh, yea, don't worry I won't be giving up Charlie the Tuner's monthly column.*

The inaugural column is focused on Jim Godfrey - KC8RKV, our fellow member from Kent. As many of you know, Jim has been instrumental in allowing PCARS members and other Hams,



to check in on our Thursday night 2 meter net by Echolink. I'm not sure how many Echolink check-ins we've had during the last year, but without Jim's

expertise and his Echolink system, we would not be able to talk with Randy in California our friend Daryl from Little Rock, or all the others who have been able to use their computers to check into the net.

Jim maintains the system in one of the many buildings on the Kent State University campus. We owe Jim a great deal of gratitude for his past and continued work in keeping the system up and running. I am sure that it is not always fun and games for Jim so the next time you see him at the meeting, please shake his hand and tell him how much we appreciate his work.

Jim was licensed in 2000 as a Technician. He first became interested with his dad's encouragement that he could try anything he wanted to do. He seemed to become enamored with short-wave listening. This interest did not come late in life. He wanted to become a Ham much earlier. Jim said that he believes it was 1966 that his dad drove him to Detroit to take his exam. However, back then the FCC had no way to accommodate someone with Cerebral Palsy, so life's interests took a different direction until Jim was able to take the test in 2000.

Jim enjoys operating on 6m, 2m, and 70 cm. His rigs consist of an Alinco 605 for 2m and 70 cm work and an RCI 5054 for 6m operation. He also still enjoys SWLing. His antenna systems include a Cushcraft tri-bander for 6, 2, and 70cm with 5 elements on 2 and 70 and 3 elements on 6. Oh yes, Jim and family also enjoy getting away to a cottage north of Ontario, Canada. When there, one of the activities the Godfrey family enjoys, are slow trips around a lake in a pontoon boat. It just so happens that Jim has rigged up a Ringo antenna on a 17' mast on the boat and takes along one of his mobile rigs to keep on the air. Jim also gets in to the Kent repeater via Echolink from Canada. That's dedication for you.

One more thing we need to know is that Jim's son, Albert, is also a Ham – KC8ZZG. He was licensed in 2004 as a Tech.

So Jim, thanks for all your hard work. It's always a pleasure ragchewing with you. Best of 73 to you and the family.

**Chuck - K8CMP**



## ***PCARS Annual Dues are Due***

Time flies when your having fun! It's that time of the year - annual dues are due. Please bring your 2007 dues to the next meeting (Dec 11th), or mail it to KB8UUZ. Checks can be made out to PCARS If your call sign, name, address, phone, e-mail, etc has changed, please let me know so the records can be updated accordingly.

## ***Dec 29-30 Special Celebration Event***



### **2000 GMT on Dec 29th - 2000 GMT on Dec 30th**

Hello – celebrating one of the nicest words in any language – is about to come to a close. The campaign to present a friendly image of Amateur Radio to non-hams has been successful beyond even the wildest dreams back in 2005 when it was first planned out. It has shown that active Public Information Officers across the country can be very effective when provided with quality materials. Audio and video public service announcements from the Hello campaign have played on hundreds of stations and even in several other countries. The brochure usage quickly blew through the initial estimate of 40,000 and soon will pass double that at 80,000 or more. The buttons and bumper stickers flew off the tables. Approximately 60 full press books were provided to major news sources giving them background for future use in stories about Amateur Radio and the ARRL. But now it is coming to closure.

### ***GOING OUT WITH VOICES... Dec 29-30***

Hello was linked to the centennial of voice transmissions over the airwaves. In 1906 Reginald Fessenden was experimenting with voices over radio. There had been a report that he had been heard across the Atlantic, and his plan was to make a formal voice contact from Brant Rock, Massachusetts across the Atlantic to Machrihanish, Scotland. But a storm blew down the antenna at the Scottish site. Fessenden, in true ham spirit, went to “plan B.” Instead of transmitting to Scotland, he used the Brant Rock station to transmit Christmas greetings to ships of the United Fruit Company.



(More about this is at <http://www.hello-radio.org/historyofradio.html>). In 2006, hams will complete what Fessenden failed to do in 1906 and achieve Plan A with special event stations.

There will be three primary special centennial event stations operating from 2000 GMT on Dec 29 to 2000 GMT on Dec 30. Representing the past are W100BO/W1F at Brant Rock with Steve Barreres, K2CX, as team leader. GB1FVT will be at Machrihanish with Duncan MacArthur, GM3TNT, as team leader. Representing the future will be W1AW in Newington, CT.

In addition to the site locations showing the past and future of radio, the voice modes used will also reflect both traditional and new technologies. The stations will be operating AM from the early 1900's. SSB, FM, and Echolink/IRLP will bring the voice technologies through the 1900's and into the computers of the 21st century. IRLP/Echolink will also allow those whose licenses limit them to VHF/UHF to join in the fun.

Information about the individual keystone sites is at:

<http://www.arrl.org/w1aw.html>

<http://groups.msn.com/fessenden>

<http://w1f.k2cx.us>

### **SPECIAL QSL CARDS**

Special Hello centennial QSL cards are being created just for this event with the Hello logo and keystone stations depicted. Amateurs contacting the stations can receive one of the cards by mailing their contact information and a SASE directly to that station.

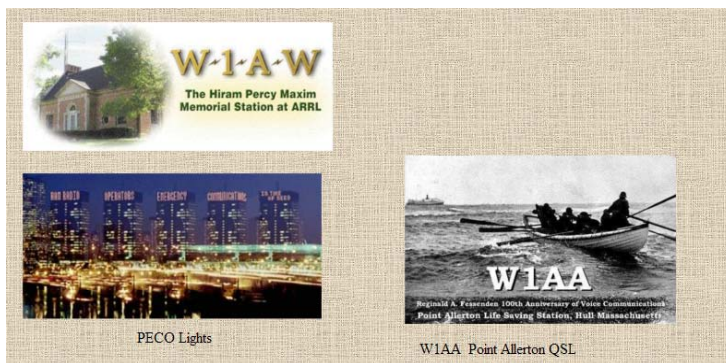
### **MANY OTHER STATIONS JOINING IN**

Adding to the action is the Amateur Radio Light House Society with 1400 members and over 10,000 subscribers, the largest lighthouse society of its kind in the world. Jim Weidner, K2JXW and President of the ARLHS, writes, "Certainly -- you can count on us at ARLHS to contribute to the effort." The ARLHS sponsors several lighthouse events during the year and one is the Lighthouse Christmas Lights <http://arlhs.com/LCL-2006-guidelines.html> which will be active at the same time. ARLHS participants working any one of these special Hello event stations during the times specified, can add 100 points (each) to your score. Be sure to indicate these separately on your ARLHS score coversheet and on your log (mark with an asterisk).

Mel Whitten, K0PFX, and Paul Metzger,

KQ6EH, are organizing the digital HF activities for the day and recruiting stations who use digital forms like WinDRM. The DVC (Digital Voice Community) will be active for this event with stand alone modems (AOR) and sound card/open source software WinDRM. See [www.hamradio-dv.org](http://www.hamradio-dv.org) and [www.n1su.com](http://www.n1su.com) In addition, the HFpack group will also be participating. Participants using the AOR (and WinDRM users as well) will be eligible for a chance to win a new AOR9800. Rules for winning the AOR modem, sponsored by Mel, K0PFX, are posted on his website [www.hamradio-dv.org](http://www.hamradio-dv.org)

Emery McClendon is organizing ARMAD's participants to join in the celebration. ARMAD is an annual Amateur Radio Special Event project that stands for Amateur Radio Military Appreciation Day and provides a way for local citizens, and members of military families to voice support and appreciation to our Troops, Veterans, and Retired Military Members. Visit [www.armad.net](http://www.armad.net) for more information.



Ashley Rennie will be working with a group as EL2AR from Liberia.

Gordon West, WB6NOA, will be joining in from his facilities in California.

[www.gordonwestradioschool.com](http://www.gordonwestradioschool.com)

W1AA - The Marconi Radio Club - will be operational from near the Point Allerton Life Saving Station in Hull, MA. [http://www.qsl.net/w1aa/w1aa\\_1001.htm](http://www.qsl.net/w1aa/w1aa_1001.htm)

"William Penn" will be saying hello from Philadelphia to hams around the world using the callsign WM3PEN. First licensed in 1976 to celebrate the 200th anniversary of the United States, Penn will have help from members of the Holmesburg Amateur Radio Club, [www.harcnet.org](http://www.harcnet.org), to celebrate 100 years of voice over radio December 29 - 30. HARC Board Member, Bob Josuweit, WA3PZO, and trustee of

WM3PEN, says Philadelphians will know about the anniversary as the Philadelphia Electric Company's (PECO) Crown Lights belt out the message "American Radio Relay League: Celebrating 100 years of voice over radio."

Bill Borland is the HF Network Manager for the Air Cadets in the UK, parented by the Royal Air Force. and similar in structure to the US Civil Air Patrol.

[www.mm0akx.btinternet.co.uk/Comex1.html](http://www.mm0akx.btinternet.co.uk/Comex1.html) The Cadets are proposing to take part in the event 29-30 December on Amateur Frequencies with special event call signs from locations across the UK

Trinity College's Alumni Radio Club will join as W1JUD on SSB and also FM from 160 m to 70cm. The W1JUD call is 70 years old and appears to be original to the college according to Matt Cassarino, WV1K

At the time this is being written, even more stations and organizations are considering joining in the celebration.

#### **OTHER MEDIA**

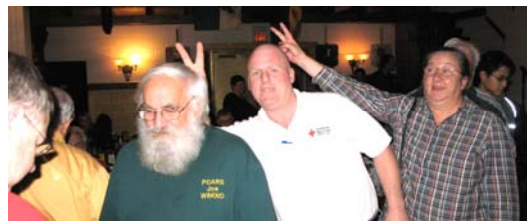
The centennial celebration, and the role of Amateur Radio in the development of radio communications, will also be noted in other ways. The PECO lights in Philadelphia have been scheduled for Dec. 29-30 thanks to EPA SGL Fred Serota, K3BHX. Bob Josuweit, WA3PZO, has an article in November's Conformity Magazine. WBUR, one of the public radio stations, plans to have a story about it nationally. MRT Magazine also is planning a story as well as the BBC. Several other radio and TV outlets have been contacted about covering the centennial and the hams' activities. In addition, Richard Harris, W3HP, has created a wonderful 5 minute radio piece which is being made available for use by others and posted on [www.arrl.org/pio](http://www.arrl.org/pio) along with the new 3 min 40 second VIDEO.

#### **LOCAL ACTIVITIES and PUBLICITY**

The ARRL Public Information Officers, always a creative crew, are also finding ways to promote Amateur Radio and celebrate the centennial in their home areas. PIOs are being encouraged to contact stations in their areas about this opportunity. Surprisingly, many broadcasters remain unaware of the centennial which is the very basis of their employment!

*From ARRL*

## **Pictures from the November PCARS Meeting**



## **Thanks**

Well, that's the 11th and final issue of the PCARS newsletter the 'RADIOGRAM' for 2006. I appreciate your help in getting material for me, all the members look forward to getting this newsletter every month, so keep sending me those inputs! Thanks goes out to this months contributors: **WB8LCD, KC8PD, W8KNO, K8CMP, KB8DPN, KB8UUZ, N8QZ, N8JE, N5VLZ, KC7SXN, ARRL**, and the **World Wide Web**. With your continued help – we can make this a great newsletter.

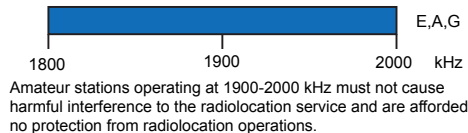
**Tom - KB8UUZ**

Newsletter Editor

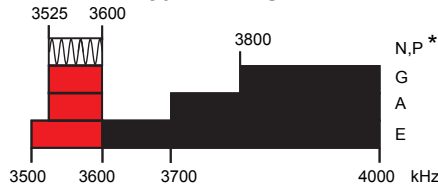


Effective Date December 15, 2006

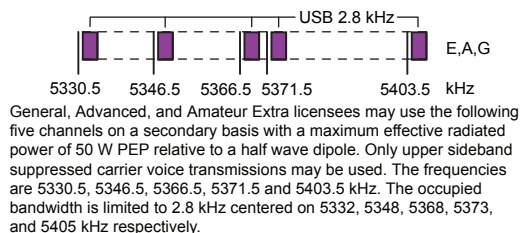
## 160 METERS



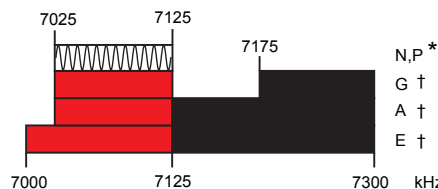
## 80 METERS



## 60 METERS

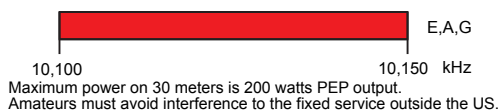


## 40 METERS

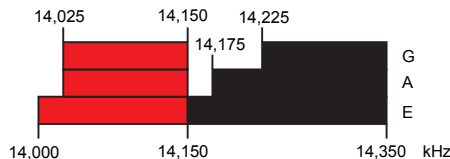


† Phone and Image modes are permitted between 7075 and 7100 kHz for FCC licensed stations in ITU Regions 1 and 3 and by FCC licensed stations in ITU Region 2 West of 130 degrees West longitude or South of 20 degrees North latitude. See Sections 97.305(c) and 97.307(f)(11). Novice and Technician Plus licensees outside ITU Region 2 may use CW only between 7025 and 7075 kHz. See Section 97.301(e). These exemptions do not apply to stations in the continental US.

## 30 METERS



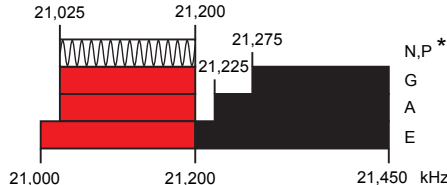
## 20 METERS



## 17 METERS



## 15 METERS



## 12 METERS



## 10 METERS



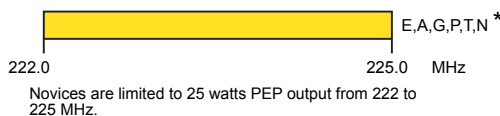
## 6 METERS



## 2 METERS



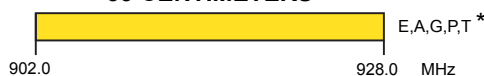
## 1.25 METERS \*\*\*



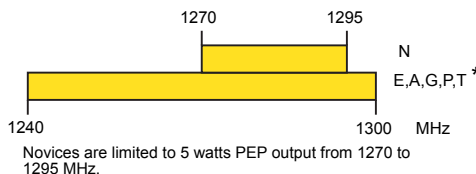
## 70 CENTIMETERS \*\*



## 33 CENTIMETERS \*\*



## 23 CENTIMETERS \*\*



## US AMATEUR POWER LIMITS

At all times, transmitter power should be kept down to that necessary to carry out the desired communications.

Power is rated in watts PEP output. Unless otherwise stated, the maximum power output is 1500 W.

Power for all license classes is limited to 200 W in the 10,100-10,150 kHz band.

Novices and Technicians are restricted to 200 W below 28.5 MHz.

In addition, Novices are restricted to 25 W in the 222-225 MHz band and 5 W in the 1270-1295 MHz subband.

## KEY

- = CW, RTTY and data
- = CW, RTTY, data, MCW, test, phone and image
- = CW, phone and image
- = CW and SSB phone
- = CW, RTTY, data, phone, and image
- = CW only
- = USB Phone only

E = AMATEUR EXTRA  
A = ADVANCED  
G = GENERAL  
P = TECHNICIAN PLUS  
T = TECHNICIAN  
N = NOVICE

\*Technicians who have passed the 5 wpm Morse code exam are indicated as "P".

\*\*Geographical and power restrictions apply to all bands with frequencies above 420 MHz. See *The ARRL FCC Rule Book* for more information about your area.

\*\*\*219-220 MHz allocated to amateurs on a secondary basis for fixed digital message forwarding systems only and can be operated by all licensees except Novices.

All licensees except Novices are authorized all modes on the following frequencies:

2300-2310 MHz  
2390-2450 MHz  
3300-3500 MHz  
5650-5925 MHz  
10.0-10.5 GHz  
24.0-24.25 GHz  
47.0-47.2 GHz  
76.0-81.0 GHz  
122.25-123.0 GHz  
134-141 GHz  
241-250 GHz  
All above 275 GHz



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**The Portage County Amateur Radio Service, Inc. (PCARS)**  
 meets the 2<sup>nd</sup> Monday of each month at 7:00 PM at Mike's Place – Routes 261 & 43 in Kent  
 All are welcome to attend – Drop in and say hello!



***“When All Else Fails – Amateur Radio Works”***

**PCARS Uses Repeater: 146.895 MHz (PL 110.9 – Rootstown, Ohio PL 114.8 – Kent, Ohio)**

**Repeater is graciously provided by N8KW for use by PCARS members**



**2007 PCARS Elected Officers**

Office	Call	Name	E-Mail
President	WB8LCD	Tom Sly	wb8lcd@portcars.org
Vice President	KC8PD	Jim Aylward	kc8pd@portcars.org
Treasurer	KB8UUZ	Tom Parkinson	kb8uuz@portcars.org
3 Year Trustee	KB8DPN	Russ Anderson, Sr.	kb8dpn@portcars.org
2 Year Trustee	KB8VJL	Al Atkins, Sr.	kb8vjl@portcars.org
1 Year Trustee	W8KNO	Joe Wehner	w8kno@portcars.org

**PCARS Appointments & Committees**

Awards	W8KNO	Joe Wehner	w8kno@portcars.org
Call Trustee	KB8VJL	Al Atkins, Sr.	kb8vjl@portcars.org
Field Day	KC8PD	Jim Aylward	kc8pd@portcars.org
KD8CKP QSL Mgr.	KB8VJL	Al Atkins, Sr.	kb8vjl@portcars.org
Net Controller	WB8LCD	Tom Sly	wb8lcd@portcars.org
Newsletter	KB8UUZ	Tom Parkinson	kb8uuz@portcars.org
PIO	KC8PD	Jim Aylward	kc8pd@portcars.org
Repeater	WB9LBI	Bill Fraedrich	wb9lbi@portcars.org
Secretary	KB8UUZ	Tom Parkinson	kb8uuz@portcars.org
Web Master	KB8DPN	Russ Anderson, Sr.	kb8dpn@portcars.org



**PCARS Mentors – Need some help or advice?**  
**Contact by email at <callsign> @portcars.org**

1. Wire Antennas	14. Mobile (install)	Code	Contact
2. Beam Antennas	15. Computer Logging	17	Jim - KC8RKV
3. APRS	16. QSLs	5, 24	Bill - WB9LBI
4. Contesting	17. Echo Link	1, 4, 9, 12, 14, 16, 18-706, 19-TS690, TH22AT	Tom - KB8UUZ
5. CW Operation	18. Help - Icom	3, 6, 8, 12, 14, 17, 23, 25, 20. - FT100 - VX5, 19. - TH-F6 - D700	Russ - KB8DPN
6. DF (Fox Hunt)	19. Help - Kenwood	1, 5, 10	Tom - WB8LCD
7. DXing	20. Help - Yaesu	2, 6, 14, 17, 23, 25	Jim - KC8PD
8. Experiment/Ckts.	21. Help - Boat Anchors	4, 5, 9	Joe - W8KNO
9. HF Phone	22. Amplifiers	2, 7, 9, 12, 20, 21	Chuck - K8CMP
10. QRP	23. EmComm		
11. Satellite	24. Traffic Handling		
12. VHF	25. FEMA / NIMS		
13. PSK-31	26. Computer Hardware		

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This is the **Electronic E-Mail** version of the **PCARS Newsletter, the RADIOGRAM**. The advantages to receiving the newsletter are: You get **COLOR** pictures, **NO** postage needed, and it's delivered right to **YOUR** e-mail box! If you know of anyone else that would like to receive this newsletter, please have them send me an e-mail. The RADIOGRAM is published every month and is sent only to subscribers. If you would prefer not to receive this newsletter, we understand. We'll try not to take it personally. It's not you saying you don't like us, but maybe you just don't have the time to look at all this hard work we've done just for you. Hey, that's cool. But if your heart is truly set on making sure you no longer receive this newsletter, even though we promise to one day reveal the meaning of life in it and you're going to be really upset when you miss out on that. To remove your self from the mail list – send an e-mail to me at: kb8uuz @ portcars.org

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

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NLC