



The

RADIOGRAM

When All Else Fails ~ Amateur Radio Works



January 2013 ~ Official Newsletter of the Portage County Amateur Radio Service, Inc. (PCARS) ~ Vol. 8 No. 1

~ 2013 Officers ~

President - Tom Sly - WB8LCD
 Vice President - Bill Fraedrich - WB9LBI
 Treasurer - George Proudfoot - K3GP
 3 Year Trustee - Erica Pelz - AE8YL
 2 Year Trustee - Bob Hajdak - N8QE
 1 Year Trustee - Sandra Getty - KD8JCY

~ Meetings & Net ~

2nd Monday of
 each month. 7pm
 Thursday night
 Club Net at 8 pm
 on 146.895

PCARS Incorporated
 Nov. 1, 2005

First Meeting
 Nov. 14, 2005



ARRL Affiliated
 April 20, 2006



Special Services
 Club
 March 22, 2010

From the President

It's a new year. Another chance to make PCARS the "Premier" amateur radio club in the country. It's going to take a lot of work and effort, but we can pull it off. Notice I said "we". This is not an organization that runs on the efforts of only one, or a few. PCARS relies on the efforts of everyone. So, to steal a line from JFK, "ask not what PCARS can do for you, but ask what you can do for PCARS". Funny thing is, when you do things for the club, you will be gaining personally at the same time. Everything we do is an opportunity to learn, to establish or improve relationships, and to gain the admiration of our peers for what we do for all of us. So dig in, be an active part of our club.



Tom - WB8LCD

Last month, at the PCARS Christmas Party, it was my honor to present the President's Award to Bob Hewett – K8FEY and also to Bob Hajdak – N8QE. Bob (FEY) has been providing the sound system for our meetings for quite some time now. He schleps his equipment into and out of our meeting place every month, and makes sure it's set up so everyone can hear. Our move to Stringz & Wingz has presented Bob with a whole new challenge and he makes improvements every month. When you see Bob, give him a hand with the equipment either before or after the meeting, and let him know you appreciate what he does for us. And to Bob (QE), I personally appreciate the fact that almost anytime I announce that PCARS needs help with something, Bob is there and willing to be a part of it. Whether it's teaching a section of one of the licensing classes, being a net control op or whatever, Bob always steps up. And when PCARS is doing something, Bob is almost always there. My hats off to both of you!

While not an official function of PCARS, I would also like to point out that Jim, KC8PD, has done an outstanding job with bringing Amateur Radio to the forefront of our community in the areas of Public Service and Emergency Communications. (Once again, Jim is not a one man show in this area, others are actively involved with him on a regular and dedicated basis.) Thankfully there have not been any situations that have required a callout, but we are well prepared and connected to public entities so that when and if it becomes necessary, amateur radio is prepared to serve the need. Both the RACES/Communications Unit, and ARES are activities that require a commitment to being involved and increasing your knowledge base and skill level. I would encourage you to make that commitment and participate in the coming year. These activities have made a lot more of our community members aware of amateur radio on a favorable basis. Thank you Jim, and everyone else who participates in these activities.

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Visit the PCARS Website at: <http://www.portcars.org>



From the President (continued from Page 1)

Solar Cycle 24 continues to improve. Conditions this year should provide a lot of on-air excitement. The only way you can experience that is to be sitting in front of the radio. Look for opportunities to get on the air. Work special event stations. Work the contests. Work the DXpeditions. Make a Q or two every day. The nice thing about ham radio is you can get on for 15 – 30 minutes and then get back to the family. You can't do that with golf!

One last thing, whatever you do, get a photo of it, then write it up and send it to Parky for the newsletter. I want to know what you're up to and so does everyone else in the club. I'd much rather see and hear about your amateur radio activities than some guy from somewhere else that I have no personal relationship with.

I hope that 2013 is the best year for all of you and your families. But most especially for your involvement in amateur radio and PCARS!

73,
Tom, WB8LCD
PCARS President



From the Vice President

Now That the Elections are Over...

I want to thank everyone who attended our November monthly meeting for re-electing me as your Vice President. This is the second time in a row that I have been unopposed for the VP slot, and my fifth year as an officer of PCARS. I very much appreciate your support. People ask how I do it. All I can tell you is that I grew up near Chicago, and observed machine politics at close range for many years.

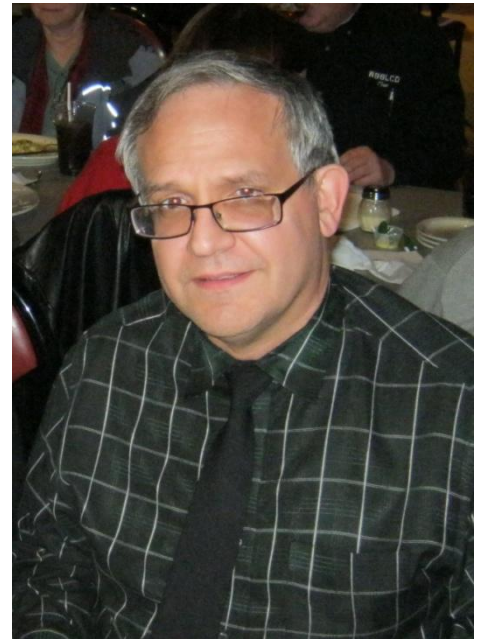
By design, PCARS is structured to prevent the same people from being reelected in perpetuity. This was done to prevent the organization from getting stagnant, and prevent the officers from getting complacent. The other side of this equation is that we all really need to look forward and give some thought to who will become the next President, VP, Treasurer, or Trustee. I look at who's active in the club, involved in Field Day, or heading up a special interest group, or other club activity.

How about you? Ever thought about how you would run the club? I suggest you start simply getting involved in any activity that sparks your interest. If you like it, I guarantee that it won't be long until you're moving up and nominated as Fearless Leader.

I've noticed, though, that our elections tend to be a spur-of-the-moment thing. There's no campaigning, but there's no preparation, either. If you have even toyed with the idea of running for a PCARS office, you should attend some Board of Directors meetings and see how the inner gears of PCARS mesh together. They are held at the club site on the first Monday of the month, and open to all PCARS members.

I would also advise you to start lining up support from your fellow PCARSians. Tell them that you intend to run, ask for votes, arrange to be nominated. This shows that you have both interest and commitment. Or, if there's another ham who you would like to see as an officer, go talk to him about it well in advance of the next election. This week, for example.

The present leadership can't stay forever, nor should they. PCARS has over 200 members and a great wealth of talent. One of them may very well be you... If you're willing to put some effort into it..



Bill - WB9LBI

Bill, WB9LBI

PCARS Yahoo Site

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/>.



Hamfest Calendar

01/27/2013 - Tusco ARC Hamfest - Location: Wallick Auction House - 965 North Wooster Avenue - Strasburg, OH 44680 - Website: <http://www.tuscoarc.org> - Sponsor: Tusco Amateur Radio Club - Contact: Janice Green , KB8YDK - 32210 Norris Rd. - Tippecanoe, OH 44699 - Email: k8wfn@tusco.net

02/03/2013 - NOARS Winter Hamfest at NEW LOCATION! - Location: VFW Post 1079 - 500 South Abbe Rd. - Elyria, OH 44035 - Website: <http://www.NOARS.net> - Sponsor: Northern Ohio Amateur Radio Society - Contact: Darlene Ohman , KA8VTS - 4122 Bush Ave. - Cleveland, OH 44109 - Email: dohman@roadrunner.com

02/17/2013 - Mansfield Mid Winter Hamfest - Location: Richland County Fairgrounds - 750 North Home Road - Mansfield, OH 44901 - Website: <http://www.w8we.org> - Sponsor: InterCity Amateur Radio Club - Contact: Danny Bailey , KB8STK - 70 Euclid St. - Shiloh, OH 44878 - Email: kb8stk1@hotmail.com

Mark Your Calendars

On the calendar for upcoming meeting topics and activities are:

- January 8th - **General upgrade class starts** at the club site - see flier for details
- January 14th - **PCARS Meeting** - Bring Your Home Brew Night
- February - **On-Air CW Training** - Details coming soon
- February 11th - **PCARS Meeting** - Logbook of the World - George, K3GP
- February 16th - **FYAO - 8th Annual QRP Event** - see the flier for details
- February 26th - **General Class Complete** - VE session at club site - 7:00 pm - open to all
- March 11th - **PCARS Meeting** - Vibroplex Factory Tour

Special Interest Groups - Every Month at the Club Site - 7 pm



- First Tuesday - **Digital** Special Interest Group
- Second Tuesday - **QRP/CW** Special Interest Group
- Third Tuesday - **MARS** Special Interest Group and the
- **Antenna** Special Interest Group
- Fourth Tuesday - **DX & Contest** Special Interest Group
- Fifth Tuesday - **Linux for Hams** Special Interest Group



Fourth Thursday - Net Night at the club site - 6:30 pm

PCARS VE Test Sessions



PCARS VE sessions are scheduled for the first Saturday of every even numbered month.

February 2nd, April 6th, June 1st, August 3rd, October 5th and December 7th

On February 26th the club's General Class Upgrade Course will be completed and there will be a VE session at the club site starting at 7:00 pm that is open to all (Tech, General or Extra).

VE sessions for Technician, General Class & Amateur Extra start at 10:00 am at the PCARS Club Site located at 705 Oakwood St. in Ravenna. Walk-ins are always welcome. We look forward to seeing you there.

Robert, N8RLG
PCARS VE Team Liaison

Recipients of the 2012 President's Award



*Tom, WB8LCD presents award to **Bob, N8QE***



*Tom, WB8LCD presents award to **Bob, K8FEY***

Freeze Your Acorns Off – 2013

The 8th annual PCARS Freeze Your Acorns Off (FYAO) event is scheduled for Saturday, February 16, 2013. We've been pretty lucky the last few years as far as weather goes, so maybe, just maybe, we'll have a cold,



Mike, KC8UNR at FYAO 2012

snowey, blowey day to get out and play QRP radio! While FYAO is a special event operation to the rest of the world, it's a contest amongst us PCARS members. KC8UNR, aka "Klondike Mike", is still the one everyone needs to be gunning for.

We'll be at the Roy Smith Shelter House in Fred Fuller Park again this year. The shelter house is a great spot to hang out and warm up, say hello to your friends and get some good eats. It's got indoor facilities, too! If it gets cold enough there's a fireplace that can add lots of warmth and atmosphere. We've learned it's not the best place to set up a competitive station, but if you want to operate from indoors, you can do it from there. We have the use of the whole park,

so the best plan if you want to be competitive is to set up somewhere out in the park where you won't have all the local QRM to contend with. Bring a tent, a trailer or whatever kind of shelter you can muster.

Set up begins at 9:00 AM and the actual contest runs from 10:00 AM until 4:00 PM. More information will follow as we get closer to the actual date. Put it on your calendar, tell everyone you know to come out and watch for a QST emailing with complete details!

Tom, WB8LCD

Editor's Note: Check out the video from the 2012 PCARS FYAO on YouTube at:

<http://www.youtube.com/watch?v=YrflXTLqXyk&list=UUECBkBI4IcI5ZGxOipKAV4w&index=5>

Contest Calendar

January 2013	
ARRL Straight Key Night	0000Z, Jan 1 to 2359Z
ARRL RTTY Roundup	1800Z, Jan 5 to 2400Z, Jan 6
MI QRP January CW Contest	1200Z, Jan 12 to 2359Z, Jan 13
North American QSO Party, CW	1800Z, Jan 12 to 0600Z, Jan 13
ARRL January VHF Contest	1900Z, Jan 19 to 0359Z, Jan 21
North American QSO Party, SSB	1800Z, Jan 19 to 0600Z, Jan 20
CQ 160-Meter Contest, CW	2200Z, Jan 25 to 2159Z, Jan 27

Straight Key Night Objective -

This 24-hour event is not a contest; rather it is a day dedicated to celebrating our CW heritage. Participants are encouraged to get on the air and simply make enjoyable, conversational CW QSOs. The use of straight keys or bugs to send CW is preferred. There are no points scored and all who participate are winners. More info: <http://www.arrl.org/straight-key-night>

On the Air

ARRL Straight Key Night (SKN)
January 1, 2013 — 0000 through 2359 UTC

Celebrate Morse code (CW) operating! Make QSOs, not points.

Radiosport

Digital Contesting: Simple and Fun!

ARRL RTTY Roundup
January 5-6, 2013

Begins 1800 UTC Saturday.
Ends at 2400 UTC Sunday.

RTTY Roundup Contest Objective-

Amateurs worldwide contact and exchange QSO information with other amateurs using digital modes (Baudot RTTY, ASCII, AMTOR, PSK31, and Packet—attended operation only) on 80, 40, 20, 15, and 10 meter bands. Any station may work any other station. Stations may be worked once per band, regardless of mode. More info: <http://www.arrl.org/rtty-roundup>

Happy Birthday PCARS Members

PCARS members having a birthday in January:

KB8IHG	Chris	Vince	N8PXW	Jim	Korenz
KD8DQT	Jeffrey	Moore	K8FS	Michael	Evans
KD8SOP	Eddie	Renfroe	KB8SZI	Peggy	Parkinson
N8RKA	Art	Barbetta, Jr.	KD8SJG	Tom	Donelan
WA8OKR	Bill	Hunt	NX8G	Rex	Simmons
NR8W	Russ	Williams	N8GIE	John	Ziccardi
KC8BTN	Ron	Corban			

EmComm

The Portage County Communications Unit/RACES welcomes Steve Randlett, K8SRR, as its newest Deputy Radio Officer. He joins Mike DiCarro, KD8FLZ, and Rick Kruis, K8CAV, as the newest member of the CU/RACES leadership team.



Steve will be the DRO for Digital Operations and Information Technology. He has a wealth of professional experience in IT and systems management and security. You can't help but notice how much more important digital modes and IT have become to the emcomm mission. Whether it is the transmission of detailed data in message format, photographs, or PDF documents, or the enhanced security of the information that they contain, digital ops are the answer.

Steve has been a quick study in the use and operation of a variety of digital modes. Those include the messaging modes available in NBEMS/fldigi, imaging software such as EasyPal, and the suite of RMS Express software that provides access to the Winlink email system.

Steve, K8SRR He has gone well beyond simply mastering these modes, he digs right down to the code they are written in. Even better, he has taken the lead in assisting other hams as they learn the digital modes and develop their skills in using them. Steve manages and serves as Net Control Station for the Portage County Digital Net (1930 hours, 2nd and 4th Tuesdays on the 146.895 repeater), offering creative instructions and step-by-step problem solving.

Steve has also gone the distance in putting our first area VHF Winlink node on the air that can be accessed using RMS Express and soundcard based Winmor. No more TNC required! The K8SRR-10 node can be found at 145.095 MHz. Not sure how to access it? Check in to the digital net and Steve will walk you through it.

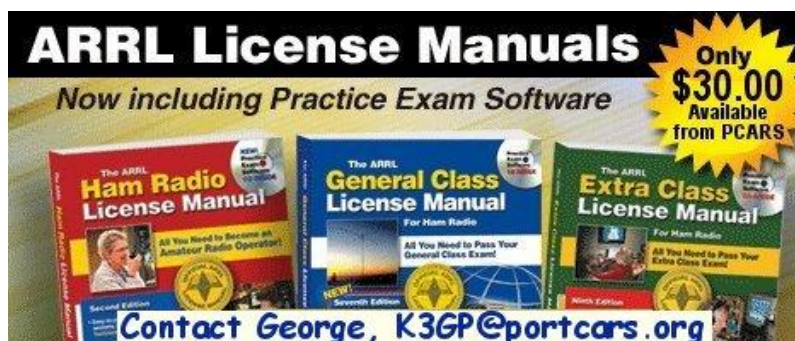
One of the true benefits of our amateur radio hobby is having the opportunity to combine our skills and experience from our other avocations, as well as our occupations or professions, with one of the many facets of amateur radio. Sometimes ham radio enhances our job prospects or professional development, but more often the hobby and our enjoyment of it benefit. More so when we can assist the public through special event or emergency communications.

Our thanks and appreciation go to Steve for what he brings to our service to the community.

73,

Jim, KC8PD/AAM5EOH

Radio Officer, Portage County OHS/EM Communications Unit/RACES
EC, ARES® of Portage County
Emergency Operations Officer, Ohio Army MARS



Paper Chase

The Cambridge Amateur Radio Association will be sponsoring a special event on January 26th from noon till 7:00 p.m. to commemorate the Ohio Blizzard of '78. If you do not remember it, it was the worst winter storm in Ohio history. It struck before dawn on Thursday, January 26, 1978. The Blizzard continued through Thursday and into Friday. Transportation, business, industry, and schools were closed statewide for two days with the normal pace of society not returning to the state for five days. Atmospheric pressure fell to 28.28 inches at Cleveland, the lowest ever recorded in Ohio. As the center of the blizzard crossed Ohio the storm rapidly intensified pulling bitterly cold air across the state with winds of 50 to 70 mph. These conditions, combined with heavy snow and blowing of the deep snow already on the ground, caused extreme blizzard conditions. Enormous snowdrifts covered cars and houses, blocked highways and railways, and closed all airports for two days.



More than 5,000 members of the Ohio National Guard were called to duty and were pressed into long hours of work with heavy equipment clearing roads, assisting electric utility crews, rescuing stranded persons, and transporting doctors and nurses to hospitals. Forty-five National Guard helicopters flew 2,700 missions rescuing thousands of stranded persons, many in dire medical emergencies. Thousands of volunteers with snowmobiles and four-wheel drive vehicles responded to pleas from police statewide to deliver medicine and transport doctors and nurses to hospitals. The death toll of 51 made this one of the deadliest winter storms in Ohio history.

A special QSL card is available from the Cambridge Amateur Radio Association, W8VP, PO Box 1804, Cambridge, OH 43725. The published frequencies are 7.135 and 14.260 MHz. The 40 meter frequency is in the Extra/Advanced portion of the band. Therefore, listen there for any instructions as they may be operating split. Otherwise you will have to find them somewhere on the band.

Because this year is their 100th Birthday Celebration, the club will be having a special event each month during the year. If you make contact with all twelve special events, you can obtain a special certificate from the same address listed above.

Hope to hear you in the pile up,
Joe, W8KNO

PCARS Patches & Stickers



PCARS logo patches & stickers 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 \$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! If you would like to order by mail contact the club Treasurer: George, K3GP at: K3GP@portcars.org



PCARS Thursday Net Control

Thank you all for helping with this! Anytime you are unable to take the net, please give me as much advance warning as possible!

January	
3	WB8LCD
10	KD8JCY
17	KJ4MPN
24	KC8PD
31	KB8UUZ

February	
7	KD8FDK
14	WB8LCD
21	N8RLG
28	WB2DFC

March	
7	N8QE
14	K8IV
21	NR8W
28	KB8UHN

April	
4	KB8UUZ
11	KD8JCY
18	KD8DFL
25	KJ4MPN

May	
2	KD8FDK
9	KC8PD
16	N8QE
23	WB8LCD
30	KB8UUZ



The PCARS net is **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: WB8LCD@portcars.org. Everyone who is a club member is welcome to have a turn!

Tom, WB8LCD
PCARS Net Control Coordinator

Charlie the Tuner's HF High-Lites

Happy New Year!! 2013!! I'm still looking for those flying cars we were supposed to have back in 1999. Oh well, as they say, "You can't have it all."

But we certainly can have some good DX experiences. I have worked a few more DX entities that were new to me. And I am hoping that you will soon work some new ones for yourself. I know of a few PCARS members that have so many DX entities worked that finding a new one is like looking for the proverbial needle in a haystack. But like good troopers, they keep looking.

What that may mean for the rest of us is that we have quite a few DX entities yet to work and should be able to take advantage of the sun spot cycle to help us out.

There will certainly be a number of DXpeditions to rare places in 2013 that should keep things interesting. Not to mention, those usual places which we have all worked and yet cannot get confirmed for one reason or another. So let's see what we have to look forward to in the first few months of the New Year.

I want to thank the following for the forecast reports for this month and beyond: the Northern Ohio Amateur Radio Society, Northern Ohio DX Association, Ohio/Penn Packet Cluster Network (especially Tedd Mirgliotta – KB8NW) for the following DX and IOTA information.



Chuck, W8PT

This report could contain "Pirate/SLIM" operations or busted call signs. Please do yourself a favor and adhere to the old adage of "Work First Worry Later" (WFWL).

In addition, some of you may have been wondering about the separation between IOTA and DX that I put in each column. Yes, there may be some islands that are activated because of the presence of an amateur. But those listed under IOTA are there because the IOTA organization has specifically recognized those activations as part of the IOTA program. So for those that enjoy going after IOTA awards, these listing are there for your special attention.

3B9, RODRIGUEZ ISLAND. Juha, OH1LEG, is now active as 3B9/OH1LEG from Baie du Nord, Rodriguez Island (AF-017, WFF 3BFF-004, WLOTA 4265) until January 7th (2013). Activity will be holiday style on 160-10 meters using SSB, RTTY and PSK31. QSL direct only to his home call sign.

9U, BURUNDI (Update). An international team of operators from ON, PA and GM will be on the air from Bujumbura between February 14-23rd (2013). In total they will have 9 operators and four stations and airing the call sign 9U4U. Operators currently mentioned are Patrick/ON4HIL, Theo/ON4ATW, Marc/ON6CC, Luc/ON4IA, Ronald/PA3EWP, Marc/ON4AMX, Stefaan/ON4FG and Franky/ON7RU. Activity will be on 160-10 meters using CW, SSB and RTTY. QSL Manager will be M0URX. A Web site is now online at: <http://www.9u4u.be> This DXpedition will also have a Twitter page. Also, this Expedition is organized by the "Belgian Rockall Team".

9V, SINGAPORE. Koichi, JR1MLT, is currently active as 9V1KK from Singapore. He is there because of his job, and he informs us that he expects to be in Singapore for "five years or so (up to economy and market)". His station is very much limited due to the residential conditions. Koichi mentions that he currently lives on the 10th floor of a condo and his antenna is much restricted. Koichi just put up a long wire with the ATU for the HF bands (40-10m) with 100 watts. He operates mostly on SSB and CW. However, he travels extensively and his operating time is limited, but he will get on the air as much as possible. QSL via JH1ILX direct.

10th AAW IN FEBRUARY. Look for the 10th Antarctic Activity Week (AAW) to take place between February 18-24th (2013). This event is promoted by Worldwide Antarctic Program (WAP) <<http://www.waponline.it>> each year to improve the world-wide attention about the Antarctic Continent and its related matters, with the aim of staying close to the researchers and personnel who are spending their time away from home and families, studying the Antarctic life and its secrets in the so many remote scientific stations in this icy continent. The WAP is also thankful for what the Nations and Research Foundations are doing to protect this still uncontaminated corner of the planet and to share a message of peace among the world. The AAW is a unique event world-wide where Hams (in any corners of the world) sign up and help promote the special attention given to the Antarctica. This worldwide event is open to all radio amateurs wishing to join them using a special call sign, which help promote the Antarctica. All SES with a WAP reference number will qualify for WAP ASEA (Antarctic Special events Award). The WAP Ref. number for any special callsign requested/issued for this occurrence can be provided upon request by sending an E-mail to I1HYW (QRZ.com). The list of participants is still open and is available at: <http://www.waponline.it/Default.aspx?tabid=113>

AAW ACTIVITIES ANNOUNCED.....

HF0A (WAP-237) SES (Special Event Station) working AAW. Janusz, SP9YI, informs that he will work as HF0A between January 15th and February 28th (2013) and in particular during 10th AAW. QSL via SP9YI. Janusz already holds WAP-215 for HF36POL and WAP 216 for HF35APAS for past activities, and now he has WAP-237, for HF0A.

CENTRAL AMERICA TOUR. Markus, DJ4EL, will be active as XE1/DJ4EL from Tlaxcala (the smallest state of Mexico, rare) at an altitude: 2500m (8200 ft ASL) between now and January 2nd (2013). Activity will be on 20/17/15/12/10 meters SSB using a Kenwood TS-50 with 100 watts into quads and vertical antennas. He will also be active as V31ME from two islands in Belize: Ambergris Caye ('la isla bonita' - NA-073) and Long Caye (Lighthouse Atoll, rare - NA-123) between January 3-17th (2013). Activity will be on 40/20/17/15/12/10 meters SSB using the same equipment. QSL both operations via DJ4EL.

D3, ANGOLA. Mike, UA1QV, is now active as D3AA from Vila de Catoca, about 30 km from Saurimo, the capital of the Province Lunda Sul, Angola, until he leaves on February 15th (2013) for another vacation. QSL via UA1QV.

EI13, IRELAND (Special Event). "The Gathering... an Irish party, on and off the airwaves." Throughout 2013, Irish families and clans will be coming together in thousands of events, both on the island and around the globe, to celebrate their history and heritage in a unique event called "The Gathering". Irish amateur radio stations, North and South, will be participating and all operators throughout the world, whether they have some Irish blood or not, are invited to join in the celebrations. The special event callsign EI13CLAN will be active throughout the year and there will be a variety of awards and other activities, details of which will be posted on the IRTS Web site at: <http://www.irts.ie/thegathering> QSL via Bureau or direct to the QSL Manager EI6AL at the following address: Silver Howe Sydenham Mews, Corrig Avenue Dunlaoghaire, Co Dublin IRELAND.

FG, GUADELOUPE. Jean-Pierre, F6ITD, will once again be active as FG/F6ITD from Guadeloupe and two islands between February 1st and March 25th (2013). Activity will be on SSB and the Digital modes. He plans to visit the following two islands in the IOTA NA-102 group: Basse Terre Island (February 1-8th) and La Desirade Island (February 9th-March 25th). QSL via his home callsign, by the Bureau or direct. Logs will be uploaded to ClubLog and LoTW. For more details, see: <http://www.qrz.com/db/FGF6ITD>

IOTA NEWS.....

AS-079. Take, JI3DST, will be active from **Miyako Island** between 0900z, December 27th and 0000z, January 7th. He states that he will use three different call signs on the island: JS6RRR (Main), JI3DST/JS6 (Sub) and JA3YEC/JS6 (For JA). Activity will be on 160/80/75/40/30/20/17/15/12/10/6 meters using CW, SSB, FM, RTTY and PSK31. Operations may vary in case of heavy rains or other conditions. QSL routes are as follows: JS6RRR via JS6RRR, JI3DST/JS6 via JI3DST and JA3YEC/JS6 is only 1 way and does not need your QSL. Via bureau is best. Please check QRZ.com for more details.

EU-030. Tom, DL7UZO, will be active as 5P9Z from **Bornholm Island** (DIA BO-001, WLOTA 2203) between May 25th and June 1st (2013). Activity will be focused on 160 meters and the Digital modes, as well as all bands on CW. QSL via DL7UZO, direct or by the DARC Bureau. A Web page is available at: <http://www.5p9z.com>

KH2/NH2, GUAM. Dave, N2NL, will once again be active as NH2T from Guam (OC-026). He is expected to be here until the summer of 2013. Dave will be active (outside of contests) as KH2/N2NL and during all contests as NH2T. QSL via LoTW or via W2YC. For more information, including a station description, you can visit his Blog Page at: <http://www.n2nl.net>

OC-151. Leo, YC9MLL, who has been live on **Flores Island** for 8 years, informs us that he operates on SSB mostly, but will operate on CW if requested. He is usually on Saturdays and Sundays, but states that he is on vacation now and hams can arrange for IOTA QSO anytime via E-mail (see QRZ.com). Leo can operate on 40/20/15/10 meters using CW, SSB, PSK31, RTTY and SSTV. He has a homebrew radio with 50-100w into a dipole and delta loop antenna. QSL via his home callsign.

DX.....

PY0F, FERNANDO DE NORONHA ISLAND. Leo, PP1CZ, will be active as PY0F/PP1CZ from Fernando de Noronha Island between January 15-21st. This will be a family holiday, so activity will be limited to his free time. Operations will be focused on 160 and 80 meters CW, and RTTY/CW, as well as some SSB on the other bands. QSL via his home call sign.

ST, SUDAN. "The Daily DX" reports that Mario, CT1FTR, has moved to the Sudan and has recently obtained his ST2FT license. He is using a FT-857 that is set up for SSB and PSK31 on the HF bands. QSL via CT2GBU direct and eQSL. PLEASE NOTE: QSLs cannot go through the REP QSL Bureau as neither CT1FTR nor his QSL Manager are members of REP.

T2, TUVALU. Operators Rob/GM3YTS, Tom/GM4FDM, Gav/GM0GAV and Clive/GM3POI will be active as T2GM from Tuvalu between March 12-23rd (2013). Activity will be focused on Europe. QSL via GM4FDM. Hopefully, more details will be forthcoming.

T6, AFGHANISTAN. Ilian, LZ1CNN (ex-YI9LZ), will be active as T6LG from Kandahar between September 2012 and February 2013. Activity will be on 80-6 meters using CW and SSB. QSL Manager is LZ1ZF. Postal address since September 1st, 2012, for LZ1ZF is: G. Vodenicharov, P.O. Box 25, 3600 Lom, BULGARIA. All QSOs will be uploaded to LoTW.

T30, WESTERN KIRIBATI. Melody, T30MK, is a native living on Tarawa Atoll (OC-017) in Western Kiribati. He states on QRZ.com, "I will be pleased to contact colleagues from all over the world. Please, be patient when contacting me as T30 is a highly requested entity. I will try to offer all colleagues the chance to confirm a contact with Western Kiribati." So far, we have not seen any QSNs on the DXClusters, but we will keep you informed.

V2, ANTIGUA. Tom, AA9A, will be active once again from Antigua between Feb 11-20. However, he will be using a new call sign V24A instead of V25AA. Activity on 160-10 meters, also 60 meters if there is a demand for it, using CW, SSB and possibly RTTY. QSL via his home call sign, by the Bureau or direct.

VO2, CANADA (ZONE 2). David, VE3AAQ, will be active as VO2AAA from the "Hams of Western Labrador" VO2WL club station in Labrador City, Labrador, in CQ Zone 2 between March 7-10th (2013). Activity will also include the RSGB Commonwealth Contest [BERU] (March 9-10th). QSL via VE3AAQ.

VP9, BERMUDA. Kurt, W6PH, will once again be active as VP9/W6PH for the 2013 ARRL DX CW Contest (February 16-17th) as a Single-Op/All-Band/Low- Power entry, and the ARRL DX SSB Contest (March 2-3rd) as a Single-Op/ All-Band/Low-Power entry. QSL direct to his home call sign W6PH.

XV, VIETNAM. Members of the Lufthansa Amateur Radio Club will be active as XV2DLH from Mui Ne between February 15-26th (2013). Operators mentioned are Rudi/DK7PE, Juergen/DH6ICE, Juergen/DH0RAK, Bernhard/DK7TF and Zkrinko/DK8ZZ. QSL via DK8ZZ. More details will be forthcoming.

Z8, SOUTH SUDAN (Update). Jim, K7QI, reports on QRZ.com that he has received his callsign, as well as Diya, YI1DZ. Their callsigns are Z81A (Jim) and Z81D (Diya) and are good for one year. Jim is now living and working in Juba, while Diya is a UN WFP telecom worker there. The two operators will soon meet and pool their resources together to help bring Amateur radio to South Sudan. Jim states on QRZ.com that "most all of Juba has no electricity and the house I've rented is the same. My company is in the process of ordering 2 generators. I am scheduled to fly back home on 25th of September 2012, and will return to Juba around late October or early November. I still need to select HF equipment and VHF equipment, and will bring the equipment back with me once I've selected the equipment. I am a member of AMSAT back home, and am planning on becoming active on AMSAT from here. Once I am set up and operating, I plan on being highly active, and will be on just about everyday. So please be patient, and I will be on very soon." Meanwhile, Diya, Z81D, has a station already set up and ready to go. Jim states, "Thanks to his kindness, we both will be using his station until I can get my station set up." By the way, Diya was heard on the air for the first time on September 13th, around 1745z operating 17 meters SSB. The QSL Manager for Z81A is Frank Remington, K7GSE. Please send S.A.S.E. with 2 green stamps or 1 valid IRC to Frank. The QSL Manager for Diya, YI1DZ (Z81D), is Stefan, OM3JW. ADDED NOTE: Both operators are now active and have been on 20, 17 and 15 meters SSB.

Well, that's it for this first month of 2013. I keep asking for you to let me know if your work any DX of interest to you –share it with others so that we can all enjoy the news. Til next month, 73 and GUD DX!!

Chuck, W8PT
aka Charlie the Tuner



QRP / CW Special Interest Group



Terry, KB8AMZ

The next meeting of the QRP/CW SIG will be on Tuesday January 8th at the PCARS club site, 7:00 PM.

Terry, KB8AMZ, will have a Tri-fecta of classic QRP rigs, the Heathkit HW-7, HW-8 and HW-9. Terry will explain the differences each new model brought with it, and we'll hook them up and put them on the air!

These rigs a plentiful in such places as EBAY, so come out and find out more about them and maybe you too will have a classic QRP rig sometime soon!

73,

Tom, WB8LCD



Swap-N-Shop

FOR SALE: Tigertronics Signalink USB - Set up for a Yaesu FT-920 (other radio cables available locally). Also comes with the usb cable, \$55 [01/02/13]

Contact Paul - NC8T@hotmail.com

Editor's Note: Ads for PCARS members run for 3 months then are dropped from the listing UNLESS you send it in again. Each ad will have an expiration date that looks like: [03/02/13] This will help keep the listings current.

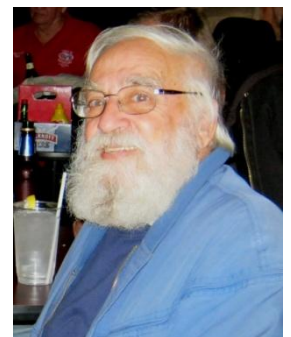


DX/Contesting Special Interest Group

The Special Interest Group meets the fourth Tuesday of the month and this month we will talk about a cabrillo generating program for those who do not have a program that generates the file or for someone who paper logs.

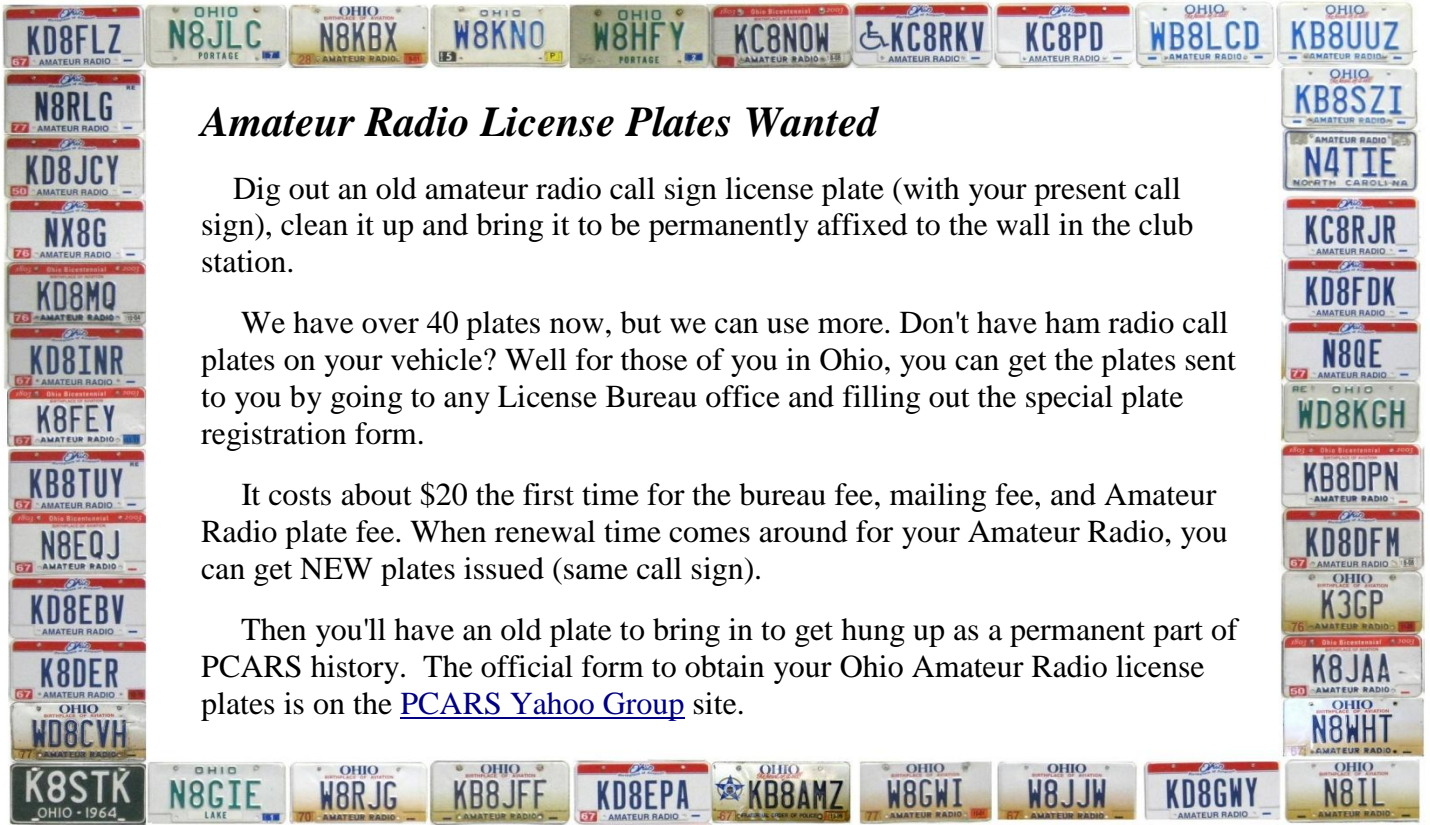
You can get an early start to familiarize yourself with the program by going to www.b4h.net/cabforms/.

If you have any cards to be checked, bring them to our meeting.



See you all there,
Joe, W8KNO





Amateur 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 club station.

We have over 40 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.

It costs about \$20 the first time for the bureau fee, mailing fee, and Amateur Radio plate fee. When renewal time comes around for your Amateur Radio, you can get NEW plates issued (same call sign).

Then you'll have an old plate to bring in to get hung up as a permanent part of PCARS history. The official form to obtain your Ohio Amateur Radio license plates is on the [PCARS Yahoo Group](#) site.

PCARS Meetings

The Portage County Amateur Radio Service (PCARS) meetings are held the **2nd Monday** of each month.

Meetings are at:

Stringz & Wingz

1543 State Route 303

Streetsboro, OH 44241

www.stringzwingz.com



PCARS meeting - 7:00 pm
Second Monday of
Every Month



The Pig Rig

January is “Bring your Homebrew Project” month. Thought I better have an up to date project to bring along with me. Besides, I really do like building stuff – some of it even works! So I started looking around for something to put



together. As a QRP'r, I looked at some of the usual places and found the Pig Rig on the Kits and Parts website. <http://www.kitsandparts.com/> W8DIZ is one of the mainstays of the Flying Pigs QRP group (I'm pig number 492), and this is actually billed as the “Flying Pig Rig”. So, I had to have one. The price was right. Looks like a pretty cool project!

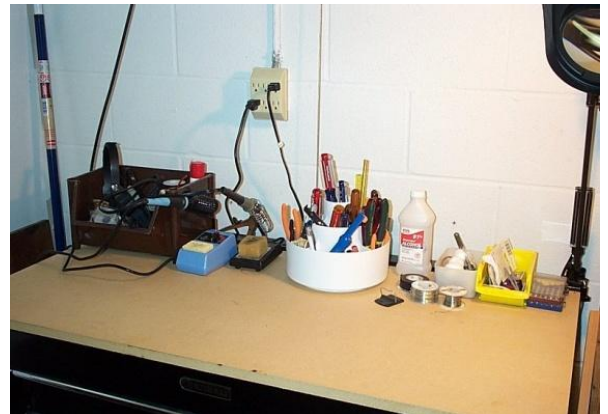


My Pig Rig showed up on Friday 12/21 – serial number 19. It came in a box about 4” on each side – hey, it's low-tech QRP, don't really need too much to get the job done. Enclosure is the only thing not provided, I've got a couple prospects for that, guess I'll have to surprise you at the January meeting.

Putting a kit like this together really doesn't take too much space, as you can see from my small workbench in a corner of our basement. The important thing is to keep it bright, and keep it neat. Having a couple small bins to sort the parts out into is helpful. While there are no surface mount parts, those 1/8 watt resistors are pretty small – I have to use a couple different magnifying glasses to even attempt something like this. Follow the instructions and work slow. The printed circuit board is a very professional product. While all parts are very nicely marked, it will be a very packed board by the time it's fully



populated. Nothing is worse than the feeling you get as you are getting close to being done and the part you are just about to install already has something in its place!



before I bring it in. Take a look at the website, this really is a neat little radio with a nice feature set for the price. Who knows, maybe you'll be melting some solder soon, too.

On Christmas morning, before going to my daughters for the present fest, I managed to get the resistors stuffed on the board and soldered in. Fortunately the meeting for January is later than usual, so hopefully I'll have time to get it all wrapped up and on the air

73,

Tom, WB8LCD

Goodbye Wires!

MIT team experimentally demonstrates wireless power transfer, potentially useful for powering laptops, cell phones without cords.

Imagine a future in which wireless power transfer is feasible: cell phones, household robots, mp3 players, laptop computers and other portable electronics capable of charging themselves without ever being plugged in, freeing us from that final, ubiquitous power wire. Some of these devices might not even need their bulky batteries to operate.

A team from MIT's Department of Physics, Department of Electrical Engineering and Computer Science, and Institute for Soldier Nanotechnologies (ISN) has experimentally demonstrated an important step toward accomplishing this vision of the future.

The team members are Andre Kurs, Aristeidis Karalis, Robert Moffatt, Prof. Peter Fisher, and Prof. John Joannopoulos (Francis Wright Davis Chair and director of ISN), led by Prof. Marin Soljagic.



Wireless power transfer over two-meter distance, from the coil on the left to the coil on the right, where it powers a 60W light bulb. Members of the team that performed the experiment are obstructing the direct line of sight between the coils; front row: Peter Fisher (left) and Robert Moffatt; second row: Marin Soljagic; third row: Andre Kurs (left), John Joannopoulos and Aristeidis Karalis.
Photo / Aristeidis Karalis

Realizing their recent theoretical prediction, they were able to light a 60W light bulb from a power source seven feet (more than two meters) away; there was no physical connection between the source and the appliance. The MIT team refers to its concept as "WiTricity" (as in wireless electricity). The work will be reported in the June 7 issue of Science Express, the advance online publication of the journal Science.

Late-night beeps

The story starts one late night a few years ago, with Soljagic (pronounced Soul-ya-cheech) standing in his pajamas, staring at his cell phone on the kitchen counter. "It was probably the sixth time that month that I was awakened by my cell phone beeping to let me know that I had forgotten to charge it. It occurred to me that it would be so great if the thing took care of its own charging." To make this possible, one would have to have a way to transmit power wirelessly, so Soljagic started thinking about which physical phenomena could help make this wish a reality.

Radiation methods

Various methods of transmitting power wirelessly have been known for centuries. Perhaps the best known example is electromagnetic radiation, such as radio waves. While such radiation is excellent for wireless transmission of information, it is not feasible to use it for power transmission. Since radiation spreads in all directions, a vast majority of power would end up being wasted into free space.

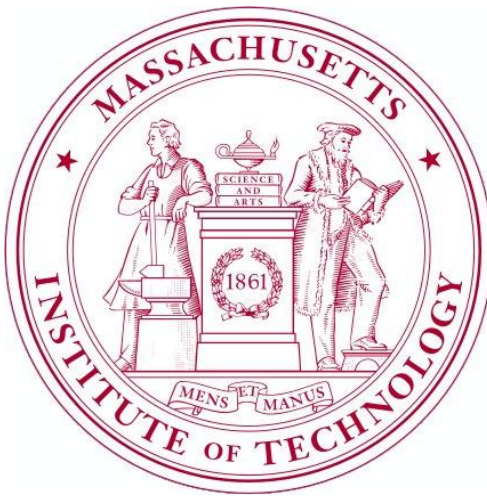
One can envision using directed electromagnetic radiation, such as lasers, but this is not very practical and can even be dangerous. It requires an uninterrupted line of sight between the source and the device, as well as a sophisticated tracking mechanism when the device is mobile.

The key: Magnetically coupled resonance

In contrast, WiTricity is based on using coupled resonant objects. Two resonant objects of the same resonant frequency tend to exchange energy efficiently, while interacting weakly with extraneous off-resonant objects. A child on a swing is a good example of this. A swing is a type of mechanical resonance, so only when the child pumps her legs at the natural frequency of the swing is she able to impart substantial energy.

Another example involves acoustic resonances: Imagine a room with 100 identical wine glasses, each filled with wine up to a different level, so they all have different resonant frequencies. If an opera singer sings a sufficiently loud single note inside the room, a glass of the corresponding frequency might accumulate sufficient energy to even explode, while not influencing the other glasses. In any system of coupled resonators there often exists a so-called "strongly coupled" regime of operation. If one ensures to operate in that regime in a given system, the energy transfer can be very efficient.

While these considerations are universal, applying to all kinds of resonances (e.g., acoustic, mechanical, electromagnetic, etc.), the MIT team focused on one particular type: magnetically coupled resonators. The team explored a system of two electromagnetic resonators coupled mostly through their magnetic fields; they were able to identify the strongly coupled regime in this system, even when the distance between them was several times larger than the sizes of the resonant objects. This way, efficient power transfer was enabled.



Magnetic coupling is particularly suitable for everyday applications because most common materials interact only very weakly with magnetic fields, so interactions with extraneous environmental objects are suppressed even further. "The fact that magnetic fields interact so weakly with biological organisms is also important for safety considerations," Kurs, a graduate student in physics, points out.

The investigated design consists of two copper coils, each a self-resonant system. One of the coils, attached to the power source, is the sending unit. Instead of irradiating the environment with electromagnetic waves, it fills the space around it with a non-radiative magnetic field oscillating at MHz frequencies. The non-radiative field mediates the power exchange with the other coil (the receiving unit), which is specially designed to resonate with the field. The resonant nature of the process ensures the strong interaction between the sending unit and the receiving unit, while the interaction with the rest of the environment is weak.

Moffatt, an MIT undergraduate in physics, explains: "The crucial advantage of using the non-radiative field lies in the fact that most of the power not picked up by the receiving coil remains bound to the vicinity of the sending unit, instead of being radiated into the environment and lost." With such a design, power transfer has a limited range, and the range would be shorter for smaller-size receivers.

Still, for laptop-sized coils, power levels more than sufficient to run a laptop can be transferred over room-sized distances nearly omni-directionally and efficiently, irrespective of the geometry of the surrounding space, even when environmental objects completely obstruct the line-of-sight between the two coils. Fisher points out: "As long as the laptop is in a room equipped with a source of such wireless power, it would charge automatically, without having to be plugged in. In fact, it would not even need a battery to operate inside of such a room." In the long run, this could reduce our society's dependence on batteries, which are currently heavy and expensive.

At first glance, such a power transfer is reminiscent of relatively commonplace magnetic induction, such as is used in power transformers, which contain coils that transmit power to each other over very short distances. An electric current running in a sending coil induces another current in a receiving coil. The two coils are very close, but they do not touch. However, this behavior changes dramatically when the distance between the coils

is increased. As Karalis, a graduate student in electrical engineering and computer science, points out, "Here is where the magic of the resonant coupling comes about. The usual non-resonant magnetic induction would be almost 1 million times less efficient in this particular system."

Old physics, new demand

WiTricity is rooted in such well-known laws of physics that it makes one wonder why no one thought of it before. "In the past, there was no great demand for such a system, so people did not have a strong motivation to look into it," points out Joannopoulos, adding, "Over the past several years, portable electronic devices, such as laptops, cell phones, iPods and even household robots have become widespread, all of which require batteries that need to be recharged often."

As for what the future holds, Soljacic adds, "Once, when my son was about three years old, we visited his grandparents' house. They had a 20-year-old phone and my son picked up the handset, asking, 'Dad, why is this phone attached with a cord to the wall?' That is the mindset of a child growing up in a wireless world. My best response was, 'It is strange and awkward, isn't it? Hopefully, we will be getting rid of some more wires, and also batteries, soon.'" This work was funded by the Army Research Office (Institute for Soldier Nanotechnologies), National Science Foundation (Center for Materials Science and Engineering), and the Department of Energy.

From the MIT news
Massachusetts Institute of Technology

Editor's Note: What makes this interesting is most Amateur Radio Operators will understand how this works since we're familiar with resonant circuitry. I just wonder what RFI problems this could evoke.....

Thanks & 73

All of our members (and others) look forward to getting this newsletter every month, so keep sending those inputs! Thanks go out to this month's contributors:

WB8LCD, WB9LBI, N8RLG, KB8UUZ, W8KNO, W8PT, KC8PD, MIT news, the ARRL and the World-Wide Web

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

Tom, KB8UUZ



PCARS Newsletter Editor

The end of the world did not happen on December 21, 2012

New evidence:

**The REAL reason the Mayan
calendar ended when it did**





Santa Pictures from the December Christmas Party



**Christmas
Party
Dec 10, 2012**

Portage County Amateur Radio Service, Inc.



PCARS - K8BF

Eighth Annual

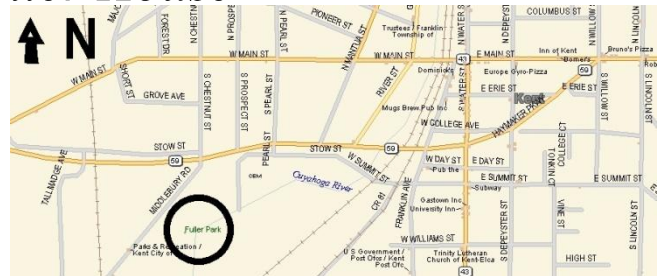
"Freeze Your Acorns Off"
(FYAO) QRP mini-field day
Special Event Station



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

When: Saturday - Feb. 16, 2013
Set up: 9am

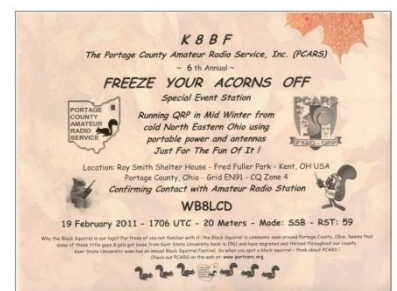
Operating Time: 10am - 4pm EST



We will be active on CW & SSB in the General areas of the 15, 20, 40 and 80 meter bands (Echolink on the K8SRR echo link node) and anything else we can get working. Club Call Sign **K8BF** for a certificate. Other participating stations will be using their own callsign/FYAO, or calling "CQ FYAO" (only stations at the Freeze Your Acorns Off event should use the /FYAO designator).

Yes, we'll be braving the cold 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 contact K8BF and send your QSL with a large SASE to the club call trustee: Al Atkins, KB8VJL - 12433 Chamberlain Rd. - Aurora, OH 44202



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



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



Amateur Radio GENERAL Class Upgrade Class



The **Portage County Amateur Radio Service, Inc. (PCARS)** is offering a General Class Upgrade course

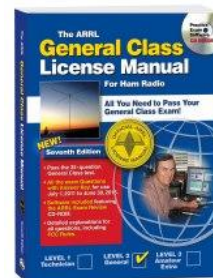
When: Tuesday Evenings 7:00 p.m.
Starting January 8, 2013
License testing will be held on the last day of class Feb 26th

Where: At the PCARS Club Site located in the
Dietrich Building - 705 Oakwood Street - Ravenna.

Cost: \$25.00 registration fee for non-PCARS members
Your \$25 fee includes a One Year Membership in PCARS
There is **no** fee for current PCARS members

Text – ARRL “General Class License Manual”
Books may be purchased from PCARS for \$30.00

Information & Registration: Contact: **Deron Boring, N8XTH**
by e-mail: N8XTH@portcars.org
or phone: **330-715-8552**



Please register with Deron, N8XTH by January 2nd
You can pay the registration fee the first night of class

As a **General Class Amateur Radio Operator** you will be able to Contact other ham radio operators in the area around the world on the HF Bands.
It will open up a whole new area of fun for you in Amateur Radio.





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. Dues are as follows:

Example - Regular Member Pays on Jan 1st \$20 for entire year. If paid on June 1st, \$15 for entire year, etc.

Check One

Pro-Rated Dues Amount:

- | | | |
|--------------------------|--|--|
| <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
Call Sign of Regular Member: _____ | Pay January 1 through May 31= \$10.00 (full year)
Pay June 1 through August 31 = \$8.00 (last 7 months)
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: Amy Leggiero - KD8SKL
115 Steels Corners Rd. W.
Cuyahoga Falls, OH 44223

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. 25 Dec 2012



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

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

at: Stringz & Wingz - 1543 SR 303 - Streetsboro, OH 44241

www.stringzwingz.com

All are welcome to attend ~ Drop in and say hello!



"When All Else Fails - Amateur Radio Works"

PCARS uses the K8IV Repeater: 146.895 MHz PL 110.9 ~ Rootstown, Oh or PL 114.8 ~ Kent, Oh ~ EchoLink Node: K8SRR

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

2013 PCARS Appointments & Committees

ARRL Awards - DXCC WAS, VUCC, WAC	W8KNO	Joe Wehner
ARRL Awards - WAS	KB8UUZ	Tom Parkinson
Club Callsign Trustee	KB8VJL	Al Atkins, Sr.
Club Site	KC8PD	Jim Aylward
Contest Coordinators	W8KNO W8PT	Joe Wehner Chuck Patellis
EchoLink	K8SRR	Steve Randlett
Field Day 2013	K8CAV W8PT	Rick Kruis Chuck Patellis
F.Y.A.O. 2013	WB8LCD	Tom Sly
Historian	KB8SZI	Peggy Parkinson
K8BF QSL Manager	KB8VJL	Al Atkins, Sr.
Net Coordinator	WB8LCD	Tom Sly
Newsletter	KB8UUZ	Tom Parkinson
OSPOTA 2013	W8PT	Chuck Patellis
P.I.O.	WA8AR	Tony Romito
Secretary	KD8SKL	Amy Leggiero
VE Liaison	N8RLG	Robert Gurney



PCARS
VE Team

KC8PD	Jim Aylward
KB8UUZ	Tom Parkinson
KB8DPN	Russ Anderson
N4IT	Carl Capps
WB8LCD	Tom Sly
N8XTH	Deron Boring
N8PXW	Jim Korenz
N8QE	Bob Hajdak
W8PT	Chuck Patellis
K8IV	Ed Polack
K8QF	Russ Conklin
WB8VNO	Gay Wands
WD8CVH	Ted Wands
NX8G	Rex Simmons
N8RLG	Robert Gurney
AB8AA	Allan Avnet
K8JAA	Jane Avnet
KD8FLZ	Mike DiCarro
KE8G	Jim Blanca
W8RID	Bob Davet
K8MSF	Bud Green
KD8LEB	Al Zielinski
WA8CCU	Al Nagy
KB8IHG	Christopher Vince
NR8W	Russ Williams
KD8RJV	Jim Corbett
W8EZT	Frank Thomas



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