

The Parasitic Emission

Volume 37—Number 3
March 2011

Supporting Amateur Radio Club Activities

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2011: The Year of the Club

ISSN: 2156-0080

**A Night At The
Radio Club**

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GROWING LARGER is at the heart of the old Persian compliment—*May your shadow never decrease.* The *Parasitic Emission* is growing— we're pleased to welcome the members of the **Indiana County Amateur Radio Club** with this issue. From what I have seen, they enjoy a healthy, very active club. Welcome aboard friends!

The new president of the Punxsutawney Area Amateur Radio Club is John Buttner, KB3OUG of Brookville. He attended the February Quad-County meeting, and brought up a topic that is near and dear to your editor, namely cooperation among our local clubs. As you know, *The Parasitic Emission* has declared 2011 to be “The Year Of the Club.” An Amateur Radio Club is very important to the amateurs (and the communities) it serves—it should be much more than a monthly “Snack & Gab.”

Think about this... When a ham is no longer active—on the air, participating in local nets, helping out on Field Day, going to hamfests, club meetings, public service events, helping newcomers, and such—is he still a ham? Or has his shadow decreased to just bits and bytes in the FCC database, ticking away the days until his license expires?

I think we can all agree that's not a good thing, so let's get to work and change it. *Your Club* holds the key to correcting this. This publication has been encouraging activity for the past year, and it appears to be paying off. There are now more activities for our local hams. With this year's focus on the clubs, the idea is to make the clubs the hub of these activities.

In my travels, I have seen that most clubs share a common question—what do we do

next? It's easy to fall into a routine of having a boring business meeting followed by coffee and doughnuts, with everyone going home after an hour or so...

Stop.

Wait a minute!

Where's the excitement? How do the members feel on the drive home after one of those meetings? Angry? Sad? Bored? Disgusted? Weary? How do *you* feel?

In a healthy, active club, the members look forward to the meetings. The meetings are a place to chat with good friends, talk about Amateur Radio, learn and do new things. A good meeting is one where plans are made, projects are started and programs enjoyed.

People want to belong—it's an inner need we all share. But more than that, people want to belong to something worthwhile. Nobody likes a waste of time. Knowing this is the secret to making your club grow and stay healthy. You have to make it worthwhile for the members.

Let's take the pulse of your club to see how healthy it is. Get out your pencils... **Question 1: Let's suppose someone asks you what your club does. What's your answer?**

You shouldn't even have to think about it—every member should *know* what their club does. If they don't, that club is in trouble. Here's an idea—At your next meeting, discuss what your club does. Make sure everybody is in agreement. Then take a vote to make that your club's “Mission Statement.”

Congratulations. Your members now know what your club does. And now, they can tell everyone who asks. Mission: Accomplished!

Question 2: The “someone” in Question 1 likes the answer you gave and now asks how to become a ham. What's your answer?

The best answers include things like... “Our

Club's next licensing classes start next month, and you're welcome to attend. We also give regular license exams,” and “I'll be happy to introduce you to everybody at this month's club meeting!”

By now you're getting the picture. Know what your club does, and make sure that it includes making new hams.

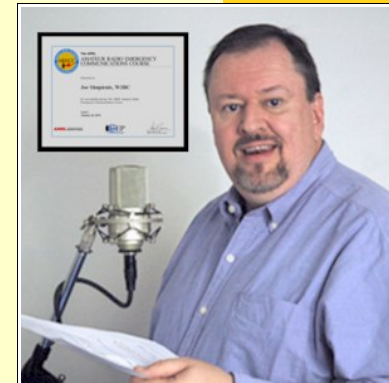
Question 3: Now that your club has successfully answered Question 2, your inquisitive friend now wants to know how to help out. What's your answer?

Careful! This is a trick question. The first year for a new ham sets the tone for the rest of his life! Notice what he asked—how to “help out.” Again, we're experiencing human nature. Right after we belong to a group, we feel a natural need to be useful. However, it's a big mistake to load newcomers down with major responsibility before they are ready!

Instead, the healthy club plans ahead, and makes a list of jobs new members can do successfully to help the club. Nothing succeeds like success, and the new member gets to know the ropes. Organizations having such a “ladder” structure benefit because things get done. Members all benefit by having something to do that allows them to earn recognition and respect for a job well done. This system builds healthy self-esteem, makes every member a valued part of the club, builds solid friendships and develops experienced, trustworthy and familiar leaders for the future.

Help your club get 100% on these three questions, and you'll be building a better club. May your shadow never decrease!

I'll see you... *On the Air!*





The Quad-County Amateur Radio Club

Serving Clearfield, Jefferson Elk And Cameron Counties Since 1975

Meeting Notices

March 18, 2011

March Meeting: The February Meeting will be held on Friday, March 18 at 7:30 pm in the meeting room of the Clearfield County 911 Center, Leonard Street in Clearfield. After the meeting, **Joe Shupienis, W3BC** will present a program on **how to use our new website**. Also, coffee and donuts will be served.

March Breakfast: 9:30 am, Saturday, March 12, Sid's Sub Shop, Old Town Road

Executive Board Meeting: Saturday, March 12, after the breakfast at Sid's Sub Shop.

Minutes

by *Bryan Simanic, WA3UFN*

The regular meeting of the Quad County Amateur Radio Club was called to order February 18, 2011 at 19:34 by President Doug Rowles, W3DWR. The pledge of allegiance was recited.

W3DWR announced that Secretary Jeff, KA3FHV was to have an operation tomorrow and was unable to attend the meeting. In the secretary's absence, Bryan WA3UFN recorded the minutes.

COMMITTEE REPORTS

Jack, AA3AZ advised the he was unable to open the file that he received from W3DWR due to the format. Doug advised the he will resend the file in a different format.

Program chairman Herb, W3TM reported that

tonight's program will be on vanity calls.

OLD BUSINESS

Joe, W3BC reported on the new web site and a summary was handed out. Joe presented an updated club logo along with some of the history of the original logo as designed by SK Jim, K3TFL. If the membership accepted the updated design, W3BC asked that the Club consider registering the logo.

John, KB3OUG suggested Google apps as a free hosting site for the new web site. He is using it for the Punxsutawney Amateur Radio Club web site. W3BC advised that that hosting site would not support most of the features incorporated in the new QCARC web site.

Joe, W3BC asked if the membership would consider going live with the new web site. Motion by AA3FZ, second by K3EDD to place the new web site live, A question about the fees was raised. There would be no fee except for the currently authorized expense for the domain name. Motion carried

NEW BUSINESS

Motion by WA3UFN second by AA3FZ to adopt the updated logo. Motion carried.

W3BC raised the question about registering the logo as a Service Mark with the State. Motion by K3EDD, second by W3KWT to spend the \$50 to register the logo. Motion carried.

A letter was received from the PA Department of State concerning the Club's incorporation status. There is a \$70 fee to continue the registration of the name. If we do not continue with the registration anyone could use the Club's name. Motion by W3BC, second by W3TM to table the decision for the Executive Board meeting that is to be held no

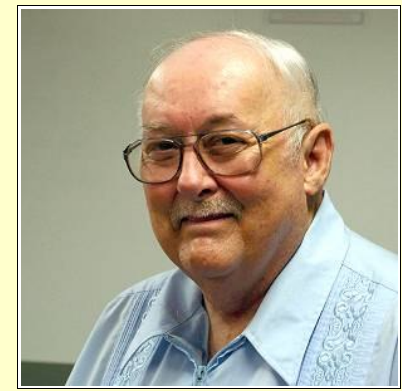
later than April 1. Motion carried.

A letter was received from another Class F Field Day station commenting about some of the activities that his station has during Field Day.

There was some information concerning the Wide Area Repeater Network in WPA.

W3BC commented about welcoming new hams and inviting people to join our hobby. He suggested that there be Ham Mentors in the various towns in the QCARC area for prospective and new hams to contact. W3BC also mentioned the the Club should consider setting up VE Exams, and licensing classes need to be reactivated. He also felt that the Club should have a media relations person and also the Club should consider contacting the hams in the served area who are not involved in the Club. Motion by W3BC second by W3TM to make the Club project an Outreach Program to the public and non-members. Motion carried.

QCARC Information	
President	Doug Rowles, W3DWR w3dwr@hotmail.com
Vice President	H. Deforest Murray, III, W3TM kb3tap@hotmail.com
Secretary	Jeff Rowles, KA3FHV jrowles@earthlink.net
Treasurer	Dorothy Morrison, N3PUQ edmo1@atlanticbb.net
Executive Board	Don Jewell, KB3LES Lars Kvant, SM7FYW Ed Morrison, K3JE Joe Shupienis, W3BC Bryan Simanic, WA3UFN
Repeaters	N3QC 147.315+ [173.8] K3EDD 444.625+ [173.8] N3IZE 444.900+ [173.8]C1fd local
Nets	Sunday @ 1900 147.315 (Club)
Web	parasiticemission.com/QCARC/



left hip. On Saturday, February 19th he underwent a hip replacement at the Clearfield Hospital. (This is being written on the 19th.)

At this point in time he will be in the ICU for two days and then will be undergoing rehab at the hospital with the probability of that being continued at the Mountain Laurel facility in Clearfield.

I would like to hold a board meeting after the March 12 club breakfast. If you have a conflict please let me know.

73,
Doug

Here is the address (It has changed from the old one):

<http://sites.google.com/site/punxyhamclub/>

PAARC Information		
President	John Buttner, KB3OUG kb3oug@gmail.com	
Vice President	Tom Sprague, KB3TOY	
Secretary	Steve Waltman, KB3FPN kb3fpn@windstream.net	
Treasurer	Sham Hollopeter, W3QOS	
Repeaters	N5NWC 146.715- [173.8] Punxs'y N5NWC 443.475+ Punxs'y KE3DR 147.390+ [173.8] Rockton N3HAO 53.07- (-1MHz) Rockton N3JGT 147.105+ [173.8] Sigel N3GPM 444.275+ Brookv1	
Nets	Monday @ 1930 147.390 (Club) Monday @ 2000 147.105 (ARES)	
Web	http://sites.google.com/site/punxyhamclub/	

SM7FYW, K3JE, N3PUQ, K3EDD,
AA3AZ, KB3ABK, WA3UFN

Behind the Gavel

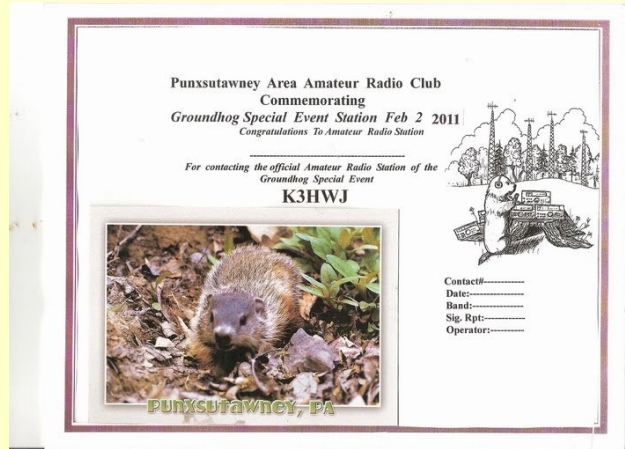
by Doug Rowles, W3DWR

RATHER THAN a soapbox type column, this is an update on KA3FHV. Some of you are aware that my brother fell recently and fractured his



Congratulations to Club President, John Buttner for the new club website. It's been a lot of hard work, and it shows.

If you're looking for something to do, why not point your web browser to the new website and check it out?



W3BC commented that there are six clubs participating in the Parasitic Emission by submitting information for publication. A comment was raised about hosting a multi-club banquet in the spring. Those clubs that would be included are those that submit articles to the Parasitic Emission, as a starting point.

A letter was received from Woody, K3YV about a regional ham club picnic sponsored by the Nittany Amateur Radio Club. There may also be a swap/shop at the picnic too. He requested feed back from QCARC if there was any interest.

Motion by KB3LES second by SM7FYW to adjourn. Motion carried.

ATTENDANCE

W3DWR, W3PRL, W3EOD, W3BC,
W3TM, KB3LES, KB3OUG, W3KWT,



Punxsutawney Area Amateur Radio Club

Serving Punxsutawney and Jefferson County

Meeting Notice

March 18, 2011

March Meeting: 7 pm, Tuesday, March 8, Presbyterian Church, Findley Street, Punxsutawney.

Shorts

Staff

From all reports, the Groundhog Day Special Event operations were successful. If you worked the station during the event, you can get a special certificate. Click the link for more information:

<http://sites.google.com/site/punxyhamclub/special-events/ground-hog-day>

Philipsburg Amateur Radio Association

Serving Philipsburg and Clearfield County

Meeting Notice

March 12, 2011

The **March meeting** of the Philipsburg Amateur Radio Association will be held on Saturday, March 12 at 3:00 pm at the Holt Memorial Library in Philipsburg.

Meeting will feature a “show and tell” and Dave AA3EJ promises to bring his new **Elecraft K2** to start things off with.

Meeting Notes

February 12, 2011

In Attendance:

Dick, K3BIE, Joe KB3CBN, Jim N3ONE, Dave AA3EJ, Rich KB3QKR, Nathan Brnik, Scott W3EOD, John N3SPW, Joe W3BC, and Paul W3PRL via video conference.

Meeting called to order by President Dave Runk AA3EJ at 3:04 PM.

Technician Classes and Test Sessions Update given by Joe KB3CBN. Joe reported that his ARRL Instructor Manual has arrived. Classes are progressing well with two students still attending and two more who have missed a couple of sessions due to a vacation. There will be a practice testing session on Friday February 18th and 7 PM. Actual test session will be on Friday February 25th at 7 PM in the library meeting room. Next test session following that will be on June 11th at 4 PM.

PARA Web Site Report – Webmaster John N3SPW repots that the site is up to date and

new PARA officers are listed on the site.

Events Discussion:

Baltimore Hamfest Trip – March 26th. We have one car going which is full. Driving will be John N3SPW and passengers will be Filip AB3HK, Jim N3ONE, and Dave AA3EJ.

Moshannon Park 5 K & 10 K Race – Dick K3BIE is coordinating. Race is Saturday May 28th. We need 6 ops to provide the same coverage as we had last year. More would be better.

Philipsburg Heritage Days – Dave AA3EJ coordinating. We don’t expect to hear anything from Philipsburg Borough until March when they start planning. It was suggested that we need to add a dark sheet to our inventory of necessary items. This will be used to cut down the light during the day so ops can see the digital displays. Jerry WA3GFL offered to bring an air conditioner. Lou WB3AAI is planning the antenna set-up and will homebrew two new antennas for the special event station.

YMCA Bike Race – Dick K3BIE is

PARA Information	
President	Dave Runk, AA3EJ aa3ej@yahoo.com
Vice President	
Secretary	John Szwarc, N3SPW jsszwarc@yahoo.com
Treasurer	Jim Warg, N3ONE
Liaison	Filip Cerny AB3HK, ARRL Liaison Dick Thompson, K3BIE Interclub Liaison
Repeaters	W3PHB 146.430+ [173.8] Rt1snk Mt W3PHB 146.640- [173.8] Philipsbg W3PHB C 147.255+ [DSTAR] Kylertown W3PHB 444.750+ [173.8] Philipsbg
Nets	Saturday @ 2100 147.430+ [173.8]
Web	www.philipsburg-ara.org

coordinating. No information at this time.

Picnic – Planned for Saturday August 13th. Location TBD.

Scouts JOTA – Rich KB3QKR coordinating. Date is October 15th.

Christmas Banquet – Date is Saturday December 10th. John N3SPW is scouting locations and the best deal. Results will be presented at the next PARA meeting.

Holt Memorial Library Donation – A discussion about the possibility of making a donation to the Friends of the Philipsburg Library as a thank you for the use of their meeting room. It was decided to make a \$50 donation.

Treasury Report – Given by Jim N3ONE. The treasury had \$594.02 on the last bank statement. Donations received at the meeting totaled \$65. A check was written in the amount of \$50 to the Friends of the Philipsburg Library. Ending balance is \$609.02.

Membership Report – of the club’s 28 member roster, 11 have re-signed for 2011 and 9 of them are ARRL members. John N3SPW will be doing a mailing to all who have not renewed their paperwork to encourage them to fill out the form.

Club Owned Equipment – It was discussed that Leo K3UMT is on possession of the club’s Yaesu FT-1802 rig, but has not been attending meetings or been heard on the air. Dave AA3EJ to call and inquire about his status.

Repeater Reports:

146.430 repeater – The battery back-up project is planned and approved. Filip AB3HK is to acquire the PowerGate unit and John

Para Shorts

John Rodgers, N3MSE the ARRL Western Pennsylvania Section Manager, is planning to attend the **PARA May 14th meeting**.

Following our club business meeting, John will give a brief talk about what he does for the ARRL followed by a Q&A session. This is our chance to express to League officials what they can do to help local clubs and what we expect out of our individual memberships in the League.



was a most excellent program, and everyone there enjoyed an evening devoted entirely to radio.

permits antenna work.

Joe W3BC addressed the group. Joe spoke about needing materials for the Parasitic Emission Newsletter. He specifically asked Dave AA3EJ to provide an article about his new Electcraft K2 with QRO amplifier project.

Next meeting scheduled for March 12th 2011 at 3 PM. Meeting will feature a "show and tell" and Dave AA3EJ promises to bring his new K2 to start things off with.

Receiver Night

by Joe Shupienis, W3BC

TUESDAY EVENING, I took a little drive to Indiana to say hello to our new friends at the Indiana County ARC. I walked into a very well-attended meeting, and was given a terrific welcome.

After the meeting there was a very interesting presentation on receivers, delivered by several club members and a guest speaker, Mr. Chris Wells, President of the Pittsburgh Antique Radio Society.

A number of members brought their favorite receivers and described them to the group. Seeing all those receivers lined up in one place was an impressive sight, indeed! This



N3SPW will acquire the battery.
146.640 repeater – After discussion, it was decided to delay installation of a pre-amp on this repeater until after some experimentation can be done. The plan is to remove the pre-amp from the club's D-STAR repeater and install it on the .64 to see if the per-amp amplifies the local RF noise as well as the signals. Experiment will be conducted in the spring.
EchoLink – Link system will be relocated to Joe KB3CBN's residence when the weather

Indiana County Amateur Radio Club
Serving Indiana County

Meeting Notices

March 2011

March Meeting: 7:30 pm, Tuesday, March 1, at the Indiana Eat 'n' Park Restaurant, Oakland Avenue at Indian Springs Road, Indiana.

W3LAB will present a program on Receivers, and those attending are asked to bring their favorite receiver/transmitter.

April Meeting: 7:30 pm, Tuesday, April 5, at the Indiana Eat 'n' Park Restaurant, Oakland Avenue at Indian Springs Road, Indiana.

KB3JOF will present a program on Quad Antennas, including a 2-meter Porta-Quad emergency antenna.

Hot Dog Night: at the W3BMD repeater site. Wednesday nights weekly, weather permitting. From 6:30 P.M. To ????. Listen on 146.910 !

Saturday Breakfast: at Indiana Eat 'n' Park Restaurant, Oakland Avenue at Indian Springs Road, Indiana. 8:30 AM to ???

Indiana County ARC Information

President	Robert Zugates KB3JOF KB3JOF@arri.net
Vice President	Jerry Kiehl WB3DUD
Secretary Treasurer	Terry Carnahan KB3JOD
Repeaters	W3BMD 146.910- No tone W3BMD 444.975+ 110.9 Simplex 147.570 Countywide Emerg Echolink Node No: 113249
Nets	Monday @ 2000 146.910-
Web	http://www.gsl.net/w3bmd/

Headwaters Amateur Radio Club

Serving Coudersport and Potter County

Meeting Notice

March 3, 2011

March meeting: 7 pm, Thursday, March 3 at the Charles Cole Memorial Hospital, Coudersport. Park in Section A and enter Door A, then the first room on the right.

Minutes

February 2011

HARC Meeting Minutes February 3 2011

Jason called the meeting to order at 7:02 PM

Minutes for January were read. Jim motioned to accept Don seconded

Treasure report

Balance \$897.60

Income \$25.00

Balance forward \$922.60

Milton motioned to accept Jim Lucy seconded.

Old Business

A discussion was held about having a message handling training

session. Possibly after the Monday evening nets or once a month and

possibly using 146.685 for RACES and using 146.88 for ARES.

A further discussion was held about Ham Classes. Jim C will order

training material. Jim C asked for input from members who wish to help

with a specific subject matter. Club has to advertise soon if classes

are to start in February. Tentative date to start February 9 and

continue for 12 weeks held at the EOC in Coudersport. Anyone wishing

to take the classes for Technician or General or know of anyone

interested please contact Jim C at 814-274-9508 or email at

Jimcent@verizon.net Subject Ham Classes.

New Business

Jason handed out forms for member registration for club member use.

There's going to be a weather exercise at EOC in March.

Jim Lucy talked about donating a Hustler 5-BVD 80-10 meter antenna to

club it needs a new tip.

Jason suggested if our repeater goes down in an emergency to use

Skip's repeater 146.88 MHz.

Jim Lucy mentioned the UHF 443.300 repeater on Dutch Hill was down and

asked if anyone knew of someone that repairs repeaters.

Don asked if club N3PC voter on Dutch hill was working also.

Jason and Tom volunteered to look at both.

Jim Lucy spoke about open skies which is what the state is using for

communications; It's a priority communications system that can not be monitored.

Don motioned to adjourn Doc 2seconded.

Attending meeting were

Milton

Linda

Jim Hayes

Don

Jim Lucy

Wayne

Greg

Diana

Tom

Doc

Skip

Skips wife

Headwaters ARC Information			
President	Jason Layton, K2BYL		
Vice President	James Centanni, W2IMK		
Secretary	Charles Scott Sharpe, KB3JVD		
Treasurer	Wayne Stahler, II, WS3PC		
Repeaters	N3PC	146.685-	[173.8] Coudersport
	K3CC	146.880-	[173.8] Coudersport
	KB3EAR	444.300+	Coudersport
Nets	Monday @ 1900	146.685-	[173.8]
	Monday @ 1930	28.360	[USB]
	Monday @ 1945	1.980	[USB]
Web	www.n3pc.com		



Elk County Amateur Radio Association

Serving Elk and Cameron Counties

Meeting Notice

March 20, 2011

March meeting: 1:30 pm, Sunday, March 20 at the Elk County EMA building, Bootjack Mountain.



New Technician, Gerald Bosak of Delancey

Elk County ARA Information

President	Scott Logue, N3LVG	
Vice President	Rick Wehler, N3RJH	
Secretary	Jerry Robinson, N3RYG	
Treasurer	Mary Lewis, N3UDN	
ARES EC	Bob Devilling, N3SGY	
Repeaters	N3NIA 147.000+ [173.8]	Bootjack
	N3NWL 147.285+	Ridgway
	N3RZL 442.200+	Ridgway
	N3RZL 442.350+	Boone Mtn
	WA8RZR 443.675+	St Marys
	N3FYD 146.805-	Emporium
	WA3WPS 147.180+	Emporium
Nets	Sunday @ 2000 147.000+ [173.8]	
Web	www.n3nia.com	

VE Test Sessions

Test dates for **Coudersport** will be 3/12, 5/14, 7/16, 9/10, and 11/12/11. The test site is the Charles Cole Memorial Hospital Conference Room at the side entrance on the helicopter landing parking level. Testing starts at 10:00AM. All license classes are given and there is no charge.

Test dates for **Ridgway** Area are 3/19, 6/18, and 9/17/11. Until further notice, these tests will be held at the 911 Center and will begin at 9:30AM. There will be no charge and all license classes will be given.

VE Exams are given in **Philipsburg** after each PARA meeting, 2nd Saturday every month except July and January.

VE Exams are planned for **DuBois** in April, July and October. Contact Bryan, WA3UFN for more information.

Shorts

Hello All, At the Thursday HARC meeting Ham Classes were discussed. Anyone wishing to take the Technician class or upgrade to general or know of anyone interested please contact Jim Centanni W2IMK at 814-274-9508 or Email Jimcent@verizon.net subject Ham Classes.

Tentative date to start Feb 9 2011 and run approx 12 weeks. Classes would be held at

Local Net Schedules

by Joe Shupienis, W3BC

QCARC	1900 Sunday	147.315 + 173.8
ECARA	2000 Sunday	147.000 + 173.8
PAARC	1930 Monday	147.390 + 173.8
Jeff Co ARES	2000 Monday	147.105 + 173.8
Indiana Co ARES	2000 Monday	146.910 - OPEN
C1fd Co ARES	2100 Wednesday	147.315 + 173.8
PARA	2100 Saturday	146.430 - 173.8
Headwaters ARC	1900 Monday	146.685 - 173.8

the EOC in Coudersport Anyone wishing to help on a subject matter help would be appreciated.

- . . . -

Date: Tue, 01 Mar 2011 13:06:52 -0000

The "Great Race" has become a signature event in Pittsburgh. Hams make a real difference.

One example, a runner collapsed and two hams were at her side in seconds. A physician and EMTs were alerted and directed to the scene. This individual owes their life to the quick response. YOU can make that difference too or just sharpen your comm skills and have a great time!

Here is the information please volunteer if you can. I would like to know how many ARES people help out so shoot me an email if you volunteer. Here is the info:

Larry AB3ER

SEC WPA ARES

Greetings. Most of you are getting this because someone or some web page told me you were the right person to contact to get things into your club's newsletter or web site. I'm trying to recruit around 150 hams to help with this year's Pittsburgh Marathon, which will run on May 15, 2011, and would appreciate your assistance.

I've put up a web page at marathon.central.org/resources.html with more information for anyone who might be able to help.

Thanks for your assistance.

- Jeffrey Hutzelman N3NHS
<jhutz@cmu.edu>

Amateur Radio Coordinator, Pittsburgh Marathon

PA Bill to Restrict Mobiles

By John Rogers, N3MSE, WPA SM

I HAVE BEEN made aware of a proposed bill introduced into the Pa. Senate by Sen. Ferlo. The legislation designated as Senate bill ([SB583](#)) would prohibit the operation of any communications device while mobile. The legislation does not exempt Amateur Radio in any manner and needs to be quickly amended to protect our rights. This bill has been referred to the transportation committee and needs to be defeated or revised.

...

I urge everyone to voice their concerns with regard to this proposed legislation as well as to spread the word about this threat to our operations for both emergency and general use.

ARRL Western Pennsylvania Section
Section Manager: John V Rodgers, N3MSE
n3mse@arrl.org

THE GENERAL ASSEMBLY OF PENNSYLVANIA SENATE BILL No.583 Session of 2011

INTRODUCED BY FERLO, FONTANA, STACK, ERICKSON, COSTA, KITCHEN, WILLIAMS, BREWSTER AND WASHINGTON, FEBRUARY 18, 2011

REFERRED TO TRANSPORTATION, FEBRUARY 18, 2011

AN ACT

Amending Title 75 (Vehicles) of the Pennsylvania Consolidated Statutes, prohibiting the use of mobile telephones and hand-held communication devices.

The General Assembly of the Commonwealth of Pennsylvania hereby

enacts as follows:

Section 1. Title 75 of the Pennsylvania Consolidated Statutes is amended by adding a section to read:

§ 3316. Prohibiting the use of mobile telephones and hand-held communication devices.

(a) Prohibition.--Except as otherwise provided in this section, no person shall operate a motor vehicle upon a highway while using a mobile telephone or hand-held communication device to engage in a call or wireless communication while the vehicle is in motion.

(b) Presumption.--An operator of a motor vehicle who uses a mobile telephone or hand-held communication device while the vehicle is in motion is presumed to be engaging in a call or wireless communication within the meaning of this section. The presumption established by this subsection is rebuttable by evidence tending to show that the operator was not engaged in a call or wireless communication.

(c) Seizure.--The provisions of this section shall not be construed as authorizing the seizure or forfeiture of a mobile telephone or hand-held communication device, unless otherwise provided by law.

(d) Applicability.--This section shall not apply to:

(1) the use of a mobile telephone or hand-held communication device for the sole purpose of communicating with any of the following regarding an emergency situation:

(1) an emergency response operator; a hospital, physician's office or health clinic; an ambulance company or corps; a fire department, district or

company; or a police department;

(2) any of the following persons while in the performance of their official duties: a police officer or peace officer; a member of a fire department, district or company; or

(3) the use of a hands-free mobile telephone.

(e) Penalty.--A violation of subsection (a) is a summary offense punishable by a fine of not more than \$100.

(f) Definitions.--As used in this section, the following words and phrases shall have the meanings given to them in this subsection:

"Engage in a call." Talking into or listening on a hand-held mobile telephone or hand-held communication device, but shall not include holding a mobile telephone or hand-held communication device to activate, deactivate or initiate a function of the telephone or device.

"Hand-held communication device." An electronic device that provides mobile telephone service or other wireless communication functions. The term includes a two-way radio device that provides radio communication between mobile and land stations or between mobile stations. The term does not include a voice-activated global positioning or navigation system that is permanently affixed to a motor vehicle.

"Hands-free mobile telephone." A mobile telephone that has an internal feature or function, or that is equipped with an attachment or addition, whether or not permanently part of the mobile telephone, by which a user engages in a call without the use of either hand whether or not the use of either hand is necessary to activate, deactivate or initiate a

9

The legislation does not exempt Amateur Radio... and needs to be quickly amended

function of such telephone.

"Immediate proximity." That distance as permits the operator of a mobile telephone or hand-held communication device to hear telecommunications transmitted over the mobile telephone or hand-held communication device, but shall not require physical contact with the operator's ear.

"Mobile telephone." The device used by subscribers and other users of wireless telephone service to access service.

"Text message." Short messaging service or the process by which users send or receive messages on wireless handsets. For purposes of this definition, an e-mail shall be considered a text message.

"Using." Holding a mobile telephone or hand-held communication device to, or in the immediate proximity of, the operator's ear or performing a wireless communication function.

"Wireless communication." Includes a text message, e-mail, push e-mail, Internet fax and Web browsing.

Section 2. This act shall take effect in 60 days.

[Editor's Note: Senator Ferlo is no stranger to controversy. His incredibly gerrymandered, three-county 38th Senatorial District is comprised of some of the wealthiest communities in Pittsburgh's northern suburbs. In 2006, he voted in favor of a similarly broad "Cell Phone Ban" (HB 804). In 2007, he voted in favor of tolling I-80 (HB 1590). In 2008, he cast the only vote against the Amateur Radio Antenna Bill "PRB-1" (SB 884). To learn more, visit his website: <http://www.senatorferlo.com>. More info is at: http://www.votesmart.org/npat.php?can_id=46942]

Amateur Radio GPS Mystery Tour

EVERY MONTH, we present a set of GPS coordinates that are somehow related to amateur radio.

Last month's coordinates were 40° 55' 48.5" N, 78° 57' 28.0" W. Just in time for Groundhog Day, they pinpoint the stump where Punxsutawney Phil makes his annual appearance. Too bad he was completely wrong this year!

This month's location is a real mystery. Not only is it hard to spell, it's hard to pronounce, as well. There are hams nearby, but this would be a great place to host a special event station or Field Day site, just to use the very unusual QTH name.

March ARGMT Coordinates:

37° 03' 45" N, 95° 40' 37.4" W

Hint: If you always find stuff the last place you look, this is the QTH for you!

Silent Key: Dan Bunn WB3DUF

By Pete Carr, WW30

WITH GREAT sadness, we report the passing of Dan Bunn, WB3DUF. Dan was very active in St Marys, and was always ready to lend a helping hand to other hams, old and new.

Dan, along with Bumps W3IE, Ed W3LQA, Cliff Carlson W3VMX and Pete WB3BQO/WW30 started the 147.000 repeater. The first day the repeater went on the air, Bumps and Danny jumped into their car and drove all over NW PA pinging it to check the coverage. It put out a whopping 10 watts to the Cushcraft Ringo antenna at 250 feet on the cable TV tower, mounted upside down to lower the radiation pattern. Bumps and Danny were like kids in a candy store with the repeater. It

carried Bumps callsign of W3IE and everyone in the area went out and bought or built 2-meter rigs. It was a magical time.

I also remember Danny working a friend in Florida on CW each day to help increase his code speed so he could upgrade. He struggled particularly hard with that. I remember admiring his "never-quit" attitude. Danny was also quite a help to Bumps after Bumps' wife became so terribly ill.

Lastly, Bumps and Danny used to go and park at the edge of the fence at the St. Marys Airport and watch the private aircraft take off and land. That was back when gas was cheap and there was a lot of traffic there. Those two were best friends and it was a great loss to Danny when Bumps passed away.

For the past several years, Danny lived in DuBois. His key fell silent last September.

For Sale

Mike Pugh, N3HBE

HERE IS THE list with new prices listed for ones I could find in my catalogs. They are looking to raise money to pay off Mike's debts. We discussed trying to get at least half the new price, on older or more used things it could be less. Don't know condition but if your interested let me know by sending an email to me at mariliion54@gmail.com. I will then check on condition and get back to you.

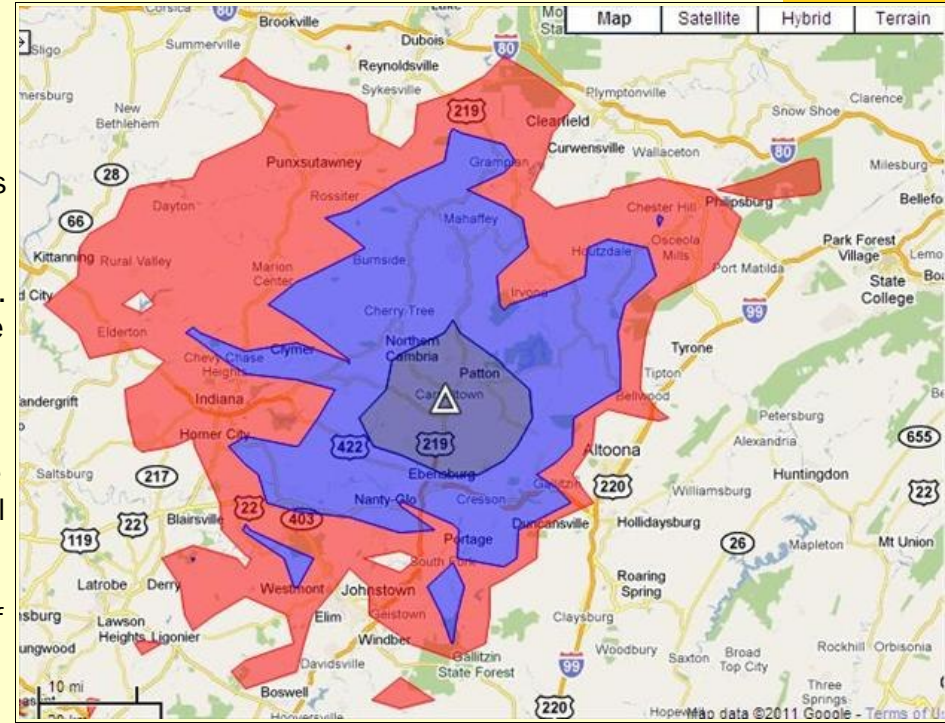
- Kenwood TM 261 A (pre 2008)
- MFJ - 844 Dual Band SWR / Wattmeter - \$70 new
- Radio Shack 3 Amp 13.8 VDC Power Supply
- MFJ - 1701 6 Way Antenna Selector - \$70 new
- Icom - IC - Q7A , 2008 IC P7A - \$229 Hand Held Transceiver
- Ameritron ALS - 500 M - \$50 new Remote Control

- (2) qty. **Radio shack HTX - 202** - old going for \$20 - \$30 Hand Held VHF FM Transceivers
- **Radio Shack PRO - 89** Race Scanner
- **Kenwood TS - 480** 2008 200 W - \$1095 100 W - \$990 HF / 50 MHZ All Mode Transceiver, DSP, Remote Wired Head, Kenwood Speaker
- **Ameritron SPS - 75** New \$360 Switching Power Supply
- **GE Super Radio AM - FM** Long Range High Performance Radio
- **Ameritron ALS - 500 M** New \$750 Solid State No Tune Mobile Amplifier
- **Grundig G5** - SSB / 700 MEM (G6 is \$99) AM / FM Stereo / SW Dual Conversion
- **Radio Shack 21-523** Field Strength / SWR Tester
- **ICOM IC-R5** Hand Held Communications receiver - 2008 \$190 New
- **MFJ - 994B** Intellituner New \$340 Automatic Antenna Tuner 600 Watts PEP SSB / 300 Watts
- **Samley S1** - 175 HP - New \$25 AC Power Source 175 Watt Power Inverter 12 V DC to 115 Volts AC
- **Kenwood TS - 2000 DSP** 2008 \$1595 HF / VHF / UHF All mode Multi Bander

The WAN-RS, in its present state, includes several repeaters physically located in Warren, Jefferson, Bedford, Cambria, and Somerset Counties in Pennsylvania, and Washington DC. These repeaters are linked (connected) together with a private wide area TCP/IP network connection (WAN) and Linux based repeater controllers which have the ability to allow multiple, simultaneous, high-quality duplex audio/telemetry connections. While similar linking systems require use of the public Internet to provide the path between sites, our present sites utilize a Private WAN to make this connection. This means if there is an Internet outage, the system will continue to operate over the private WAN; as it can exist without Internet bandwidth being supplied over it. Of course, if a repeater outside our private network is connected over the Internet, and the Internet goes out, this repeater will still operate stand-alone, but will no longer be part of the system as a whole. In other words, Internet connected repeaters will not totally fail, they will continue to operate—locally.

The new link system has, at the present time, private connectivity between the existing sites. While many miles exist between physical tower locations, all connectivity is over private, locally owned and operated networks. These networks are comprised of a mix of fiber optic and wireless topologies which are all either owned or operated under the direct control of the development team. Some of these sites have or will have redundant LAN connectivity, as it is our intention to make the system as robust as possible. It is not within the scope of this document to detail the connectivity between sites because of security and non disclosure

agreement policies. The system is, for the most part, privately held by members of the development team and organizations they



work directly for.

The WAN repeater system uses a repeater controller which is based upon VoIP technologies that allow for very high quality audio throughput and reconfigurability on a near infinite scale. It is loosely based on the Asterisk/app_rpt system utilized in the AllStar Link system and a few others, with some minor exceptions. One exception is we have chosen to use a special distribution of the application written by a mutual friend, Steve Henke - W9SH. This special distribution allows for greater flexibility and support. It is the concern of the development team that this system not be dependent on the integrity on the public Internet; in which it has no direct control over. AllStar linking between segments like ours is almost totally done over the public Internet, however, it can be configured so sites which can see one

It is our intention to make the system as robust as possible.

Manuals for most items.

Amateur Radio Linking System

By Brian Burton, KB3ORS

THE OVERVIEW that follows explains an amateur radio linking system which has been deployed in the central region of Pennsylvania which has near seamless north-south coverage from the New York State line into northern Maryland. It is the intention of the development team that this link system remain fluid in its application; which can and will change in purpose, as the need arises. The official name of the link system is "The Wide Area Network Repeater System" or WAN-RS. In times of disaster, it will serve many purposes for agencies like FEMA, PEMA, ARES and RACES/ACS, but from a neutral standpoint.

another over a private WAN can be connected without Internet bandwidth. This means that systems that are connected in a private manner will not fail to be connected to one another, as long as the private WAN does not fail. Our WAN-RS link system has been configured to allow direct connectivity fail-over in the event of a Internet outage. This configuration allows our link system to be accessible anywhere in the world as long as the Internet is healthy, and will continue to operate locally and regionally if the public Internet should fail.

This amateur radio link system system is the result of work done mainly by M. Scott Zimmerman - N3XCC and David Hunter - N3YFO. It was their vision to connect Cambria and Somerset Counties in Pennsylvania together with this technology. They have hundreds of hours and thousands of dollars personally invested in this system. The system has expanded into other Counties by cooperation of Jim Knox - N5NWC and myself, Kevin Custer - W3KKC. Thomas Brew - K3WS has enabled the system to grow at an explosive rate with donations of computer equipment, technical knowledge, and enthusiasm. Brian Burton - KB3ORS operates a dedicated a 2M machine in Sheffield PA and a part time 2M system in Kane PA - McKean County. While the system already provides a nice coverage area, we are hopeful it will expand to enable the repeater coverage desired by the development team, and regular users of the system.

<http://stats.allstarlink.org/getstatus.cgi?2135>
(Click Here For Current Connections to Hub Node 2135. THE WAN-RS IS CONNECTED TO ALLSTAR HUB 2135)

The link system currently consists of these repeater sites connected together:

- 146.625- W3KKC** PL 186.2 Warren PA - AllStar Node 27258 (Warren County)
- 442.700+ N3KZ** PL 186.2 Sheffield PA - AllStar Node 27266 (Warren County)
- 000.000- KB3ORS** PL 186.2 Sheffield PA - AllStar Node 27321 (Warren County) Echo Link Node 513230 KB3ORS-L
- 146.715- N5NWC** PL 173.8 Punxsutawney PA - AllStar Node 27296 (Jefferson County)
- 147.060+ CAWS** PL 167.9 Carrolltown PA - AllStar Node 27348 (Cambria County) Echo Link Node 377673 K3WS-R
- 145.210- KC3DES** PL 123.0 New Germany PA - AllStar Node 27355 (Cambria County) Echo Link Node 349035 KC3DES-R
- 145.390- N3YFO** PL 123.0 Johnstown PA - AllStar Node 27237 (Cambria County)
- 443.525+ KC3DEC** PL 123.0 Carrolltown PA - AllStar Node 27349 (Cambria County)
- 146.625- WR3AJL** PL 123.0 Central City PA - AllStar Node 27261 (Somerset County)
- 147.150+ KB3KWD** PL 167.9 Blue Knob PA - AllStar Node number TBD (Bedford County)
- 147.075+ N3XCC** PL 123.0 Somerset PA - AllStar Node 2375 (Somerset County)
- 442.000+ N3XCC** PL 123.0 Sipesville PA - AllStar Node 27259 (Somerset County)
- 146.560S K3WS** PL 167.9 Washington DC - AllStar Node 27245 (District of Columbia) Simplex
- 146.835- W3WGX** PL 123.0 Seven Springs, PA - Conected via RF Link to 146.625 #27261
- 446.300 K4KWQ** PL 103.5 Deland, Florida AllStar Node 2242 Connected to our node 2135

The node numbers are subject (and likely) to change as the system develops. Repeater

owners/operators in this area are encouraged to contact one of the team to discuss connection options. Servers attached to repeaters are housed at the repeater sites for the most part, and have the ability to run without connection to the AllStar server. Any server in our system could be the 'main' server. Our system, while able to span hundreds of miles, does not need the Internet to stay connected - as long as we are on our "own" network. The WAN is only private because the entities providing the connection paths work directly together, and since we collectively manage these networks as a function of our day jobs, have the opportunity to use this connectivity for something fun, and possibly priceless when disaster strikes. The W3KKC AllStar Node 2135 located in Warren, PA is used for our local hub because it affords the most robust connection to the Internet (1000 Mbps MPLS fiber); allowing multiple concurrent paths to exist.

As referenced earlier, the system is based on the AllStar Link system. Information about this system, and its current status, is available online at: <http://www.allstarlink.org/> Look Here For an AllStar Node near you.

Information on the status of the new link system is available in graphic form at: <http://stats.allstarlink.org/getstatus.cgi?2135> Simply replace the node number in this url with any node in question from the list.

At this time, the development team includes the following: M. Scott Zimmerman - N3XCC, David Hunter - N3YFO, Thomas Brew - K3WS, Jim Knox - N5NWC, Brian Burton - KB3ORS, and Kevin Custer - W3KKC. All team members can be reached at 2135@wanrepeater.net

The special Xelatec XIPPR distribution of the operating system used in this network is the

Hundreds of hours and thousands of dollars are personally invested in this system.

ASTERISK INSTRUCTIONS

This is a very basic course in using the Asterisk system. The basic commands are:

***12135** will disconnect the repeater from the system.

***32135** will connect to the hub of the multi-repeater system

***7** checks whether you are on or off line.

So You Want To Learn Code!

By Pete Carr WW30

ONE OF the Extra class Hams in our club was visiting the shack the other week. The chat got around to operating and he mentioned that he was chasing wallpaper (award certificates) of various types. He said that it was sometimes hard to get QSL cards out of the Hams he contacted. I had to agree with him but mentioned that CW contacts would send QSL cards most of the time. That got his interest and he said that he would like to learn some code copying skills. He had once passed 5 WPM for his Technician license but had promptly forgotten it when the FCC removed the requirement.

Many years ago I had worked Morse Code, as known as CW, when the last sun spot cycle was in full swing. 15 Meters was a favorite band since it offered DX contacts and easy copy because of uncrowded conditions. My code copy was somewhere between slow and slower so I appreciated the fact that nearly everyone on 15 meter CW was running the speeds I could copy. Fully half of my DCXX QSL cards are on 15 Meter CW and I had a blast working them.

This was long before the advent of the Internet, cell phones and universal English around

the world. Many people who were Hams lived in Africa, The Caribbean or the islands of the Western Pacific. They had little money, spoke almost no English and could afford only the very simplest radios. Those were the people I wanted to work. The common factor of these contacts was Morse Code with its abbreviations and shorthand. It seemed that everyone with a Ham ticket could handle a CW contact even if their native language was not English. While English has found its way into the schools of nearly every country on the planet there is still a great number of Hams who have economic and location problems that limit their stations. For this reason, the Code has remained a thriving mode of Ham communication even though it is no longer required to get a license.

One night I was listening for the pass of the RS-13 Ham satellite using an old ICOM 2-meter CW-SSB transceiver and my trusty Kenwood TS-520. This bird had been launched by the Russians and used a 2-meter uplink and a 10 meter (28/29 MHz) downlink. I was tuned up on 10 meters listening for the Morse Code beacon signal. Way down in the noise appeared the first notes of CW so I tuned the receiver to a nice 800 Hz tone for easy copy. The bird was sending telemetry number strings that tell the ground stations about the state of its health. Just for laughs I tuned the 2-watt ICOM to the uplink frequency and started sending strings of dots. Just above the downlink beacon signal I could hear a string of dots that started

and stopped when I quit sending! I was making the round trip to outer space with 2 watts and a ground plane antenna! I let out a yell and my wife came down to the basement shack to see if I had electrocuted myself. I put the earphones on her head and sent some dots from the ICOM. She could hear them in the earphones but didn't understand what all the excitement was about. I explained that I was using very low power and communicating through a Russian satellite

out over the Atlantic ocean and hearing my own signals. She was only semi-impressed but seemed glad for me. I was thrilled! To this day many satellites such as AO-51, AO-7 and the new SuitSat, that will launch in February 2011 from the International Space Station, all



have provisions for working them on Morse Code. Samuel Morse would be so proud.

There are many articles about learning the Code that are available if you search the Web. QST Magazine from www.ARRL.org has an excellent search engine that looks through QST articles dating back to the beginning of the publication and is open to ARRL members. You can also find good material at www.eham.com and other web sites that deal with the subject. I had used code tapes (cassette) while driving to work and back to learn the Extra class code and that worked really well. At 20 WPM it's very hard to write each letter or number down on paper so I learned to copy in my head.

The common factor was Morse Code with its abbreviations and shorthand.

I found that Ham QSOs (contacts) use about 50 words or abbreviations and that I could copy in my head if I learned them. Sentences such as "been a ham for years" or "age here is" are the main part of the contact. I would then fill in the blanks in my head or on paper.

There are a few good computer programs available for free by searching the web as well. Once you are confident that you have learned the letters, numbers and punctuation marks, I'd suggest you get a code practice oscillator and a key and a friend and send code back and forth.

At the time I was only concerned with passing the code test so content of the "formula" QSO was a priority. Later I found that the 50 words in Morse worked pretty well as a basis for on-air contacts. Today, when I'm carving balsa wood for the newest model airplane I'll power up the HF rig at around 7.54 MHz SSB and just let it play. CW stations will come on in the bandpass and make contacts and I copy along in my head. As before, I fill in the blanks of the QSO with their name, age, location and station equipment. It doesn't matter if their tone is higher in frequency or so low that they nearly zero-beat. I copy along and enjoy the contact along with them. They send Code at around 10 to 15 WPM and are interested in more than just the minimum contact requirements. These contacts make the time in the basement (man cave) even more enjoyable.

While collecting QSL cards for awards and certificates from around the world is great fun, I've found that it's equally as much fun to copy a contact and try to visualize the guy sending code at the other end. The guys with the slower but very precise code skills are usually older and long-time CW people. Sometimes I'll hear code that is really slow and copy that the Ham has suffered a stroke or recent heart attack. Just imagine the work

and commitment it takes to fight back from a severe illness like that to the point where he could send code again.

The faster guys sometimes make a mistake in sending but go right on without making the correction as we were taught to do. These are the "contesters" who really don't care what the rest of CW Hams think of them (IMHO!) Thankfully, they inhabit the lower end of 40-meters so I just tune clear of them.

There is a new sun spot cycle starting up and the bands will soon be crowded with signals from those wonderful exotic places I worked so many years ago. The CW portion of the bands will be alive with contacts even though learning the Code isn't required any more. CW still lives because it's fun and well worth the effort to learn.

Website Update

by Joe Shupienis, W3BC

BEFORE THE INTERNET, before computers, we used something called the US Mail to send mimeographed newsletters to our members. Then came Xerography, and the photocopied newsletters came to your mailbox, once a month.

How times have changed!

Today, each club has a website that permits up-to-the-minute reporting of club activities. A good website is an asset to the club, and two of our local clubs have recently upgraded their websites to a more modern look.

John Buttner, KB3OUG has revamped the Punxsutawney Area ARC website with a new

Punxsutawney Area Amateur Radio Club K3HWJ

Home Club Photos Special Event Photos Members Projects YouTube Movies Power Point Slide Shows Live Area Cameras Guest Book

Navigation Bar

Home

Punxsutawney, PA - The most dependable weather capitol of the world

CQ - CQ - CQ DX Land We have a special report to relay to the world.

The groundhog did not see his shadow which means an early spring. Hooray!

The club members would like to give a special thanks to:

Mike Miller N3BHB (previous President)
Jim Byrne KA3WSX (previous Vice President).
They have served the club for many years and need to attend to other life's matters.

About Us

Welcome to the Punxsutawney Area Amateur Radio Club's website

Because our club's home is Punxsutawney, Pennsylvania and Punxsutawney is known world-wide for our Punxsutawney Phil, we, in the radio club are also known far and wide for what we refer to as: our club hosted "GroundHog Day" special event station" and it is something that we have proudly participated in for many years. (have to find out how long this has been done) (also have to find something on how old the club is)

The members of our club have maintained a proud tradition of making radio contacts; with as many fellow amateur radio operators; (also referred to as "hams") from around these United States and around the world. For the longest time we have been headquartered in a room at the Punxsutawney Airport and that is where all the activity is at least for Ground Hog Day.

We have also participated in the annual "American Radio Relay League" Field Day exercise, held in June, which is a two day event where the major intent is operate off the grid, using batteries, generators, or other sources of power to run the equipment and utilizing antennas erected especially for the event, in other words, temporary antennas.

Our club meets once a month, on the second Tuesday, in the basement of the Presbyterian Church in Punxsutawney at 7:00 P.M. We also have a "black night" held at our Punxsutawney Airport radio shack, generally from May to October, on the first Tuesday of those months. And, once a week, on Mondays, at 7:30 p.m., we conduct a 3 meter radio net on the 147.390 repeater (PL 173.6) where the club members, and non members gather to check equipment and practice radio procedure in case of an emergency.

Our club's radio call sign is K3HWJ which was the call sign of Art Briney, a long time ham and member of the Punxsutawney Area Amateur Radio Club.

NOTE: After viewing our main welcome page please use the Navigation bar on the left to surf the site

Our Location

Our local clubs have recently upgraded their websites to a more modern look.

The Parasitic Emission

March 2011

hosting provider (Google.) He has completely redone the site, and although work is still in progress, there is a lot of worthwhile content and lots of eye-candy already on display.

Check out all the club photos Cliff Wineberg, WB3GAD has uploaded of club activities through the years. Great work, fellows!

Check it out by pointing your browser to: <http://sites.google.com/site/punxyhamclub/>

Quad-County ARC

I've taken a different approach with the update of the Quad-County website. Using WordPress as a content management system allows us to keep the website updated easily. It also permits anyone to leave comments and

discussions on any article posted, and registered users can create new content. You can even upload photos with your posts!

I've preloaded it with a lot of content, but don't let that stop you from adding your own! The site is hosted on a distributed server cluster and uses the latest AJAX, jQuery, PHP and Flash technologies to provide a cross-platform, immersive, interactive, multimedia experience. You can use RSS to alert you instantly when new articles are posted. You can even browse with your smartphone!

Site automation allows timely posts to show only when they are current and disappear once they expire, keeping the site fresh. It's never the same twice! Have a look!

<http://qcarc.com>

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The Parasitic Emission is published monthly for all Radio Amateurs residing in central Pennsylvania. This electronic edition is provided free of charge by email, and may also be downloaded from:

www.parasiticemission.com

which also makes available selected back issues, current issues and more.

The current, online, interactive version of the calendar, which contains regional club activities and events in upcoming months may be accessed at calendar.parasiticemission.com.

You may use that calendar to enter amateur radio events of interest to local amateurs which are intended for publication, subject to review and approval.

The site uses the latest AJAX, jQuery, PHP, SQL and Flash technologies...



March 2011 Amateur Radio Club Activities

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
27 12:00am» NAQP - RTTY (cont.) 7:00pm» QCARC 2-meter FM Net 8:00pm» Elk Co ARA Net	28 7:00pm» HARC Nets 7:30pm» Punxsutawney ARC 2 Meter Net 8:00pm» Jefferson County EMA Radio Service Net	01 7:30pm» Indiana Co ARC Meeting	02 6:00pm» SKYWARN class 9:00pm» Clearfield County A.R.E.S. Net	03 7:00pm» Headwaters ARC Meeting	04	05 9:00pm» Philipsburg ARA Net
06 7:00pm» QCARC 2-meter FM Net 8:00pm» Elk Co ARA Net	07 7:00pm» HARC Nets 7:30pm» Punxsutawney ARC 2 Meter Net 8:00pm» Jefferson County EMA Radio Service Net	08 7:00pm» Punxsutawney Area ARC Meeting	09 9:00pm» Clearfield County A.R.E.S. Net	10	11	12 9:30am» QCARC Breakfast 10:00am» Potter Co. ARES VE Exam Session 3:00pm» PARA Meeting 9:00pm» Philipsburg ARA Net
13 7:00pm» QCARC 2-meter FM Net 8:00pm» Elk Co ARA Net	14 7:00pm» HARC Nets 7:30pm» Punxsutawney ARC 2 Meter Net 8:00pm» Jefferson County EMA Radio Service Net	15	16 9:00pm» Clearfield County A.R.E.S. Net	17	18 7:30pm» QCARC Meeting	19 9:00pm» Philipsburg ARA Net
20 1:30pm» Elk County ARA Meeting 7:00pm» QCARC 2-meter FM Net 8:00pm» Elk Co ARA Net	21 7:00pm» HARC Nets 7:30pm» Punxsutawney ARC 2 Meter Net 8:00pm» Jefferson County EMA Radio Service Net	22	23 9:00pm» Clearfield County A.R.E.S. Net	24	25	26 9:00pm» Philipsburg ARA Net
27 7:00pm» QCARC 2-meter FM Net 8:00pm» Elk Co ARA Net	28 Parasitic Emission Submission Deadline 7:00pm» HARC Nets 7:30pm» Punxsutawney ARC 2 Meter Net 8:00pm» Jefferson County EMA Radio Service Net	29	30 9:00pm» Clearfield County A.R.E.S. Net	31	01	02 9:00pm» Philipsburg ARA Net