

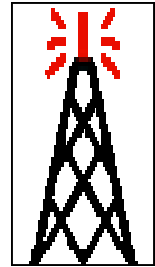
PENN WIRELESS ASSOCIATION

X-MITTER



***PUBLIC SERVICE
THROUGH COMMUNICATION***

March 2015 Vol. 54 No. 3



Students at Council Rock High School South in Holland, Bucks County wait their turn to ask questions of the Astronauts aboard the International Space Station

PENN WIRELESS ASSOCIATION

CLUB INFORMATION

W3SK VHF Analog Repeater Frequency: 146.790 MHz (-0.6, 131.8pl)
W3SK UHF **Fusion** and Analog Repeater Frequency: 448.225 MHz (-5.0, 131.8pl)
Echolink to W3SK Repeater System: Via W3SK-L (node# 502543)

PWA Webpage URL: PennWireless.org

PWA Email: PennWirelessARC@gmail.com

PWA Executive Board: PWA-EBoard@googlegroups.com

Technet Email Reflector: PWA-Technet@googlegroups.com

Penn Wireless Association holds regular meetings consisting of general club business, current committee reports, group discussions, featured programs and a social period. This meeting is held at the Falls Township Building, 188 Lincoln Highway, Fairless Hills, PA on the third Monday of each month at 8:00 pm. Please contact the club vice president to add your business topic to the meeting agenda.

ALL VISITORS ARE WELCOME!

PWA-Technet @ googlegroups.com Email Reflector User Account Policy

Penn Wireless Association, Inc. does not knowingly profit and/or disseminate user e-mail information to "spam" lists. The reflector provides us a means to just send e-mail to those who wish to receive notification when new X-Mitter issues and other relevant information (including, but not limited to, volunteer requests, ARES/RACES meetings, Field Day information, & Club events) are available for you to view on PWA web sites. We routinely send mass e-mail notification to all users, but we avoid issuing e-mail that is unrelated to Amateur Radio. However, we may send a mass e-mail to all users only if there is a problem with the web site, during web site maintenance, or during an emergency or scheduled public service event in order to notify those Amateur Radio operators who may wish to participate in RACES/ARES or PWA operations. If you have already registered as a user please review your account's distribution settings and if your e-mail is current so we may send you notification when new X-Mitter issues

X-MITTER Newsletter Policy

X-MITTER, the official newsletter of Penn Wireless Association, is published monthly by and for Penn Wireless members and all Radio Amateurs. All material in **X-MITTER** may be reprinted, providing that a credit line is given, mentioning **X-MITTER**, Penn Wireless, Inc. and the byline contributor. The **X-MITTER** publication committee strives for accuracy, and we believe that all articles submitted are factual in their content. **X-MITTER** and PWA cannot be held responsible for inaccuracies of information and/or sources. All material submitted by PWA members shall be published, providing that such items meet generally accepted standards of quality and substance. Contributions by others shall be considered on a space-available basis. PWA membership is open to all persons with an interest in amateur radio, subject to approval of the executive board and current membership. A valid Amateur Radio license is required for full voting privileges. Mail for **X-MITTER** should be sent to: **Penn Wireless Association, P.O. Box 925, Levittown, PA 19058**. Contributions may, also, be E-mailed to pwa-x-mitter@googlegroups.com. The closing date for submission of appropriate material to the pending issue (space permitting) is one week before the PWA General Meeting. We exchange **X-MITTER** with other area club newsletters. If your club is interested in exchanging with us, please e-Mail our group accordingly. Copyright © Penn Wireless Association, 2015.

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A LOOK AHEAD TO APRIL

You are invited to an evening with Bob Hecht, KA3ZKJ as he recalls memories of his involvement with the esteemed Army Security Agency as an expert Morse Code operator during the Vietnam war.

Bob's interest in radio communications goes way back to his early teen years listening to short wave radio. When eligible for the draft, Bob sought a meaningful involvement as a top clearance-level, Morse Intercept Operator in the Army. He passed the rigorous ASA Tactical Training Course which qualified him to serve many surveillance missions abroad, especially with the largest field station in the world.

Bob's accomplishments continue with three advanced degrees in Political Economics, Business Administration and Law.

We are indeed fortunate to have Bob speak to us on April 20th at 8pm. He will be available for a question and answer period after his discussion. Do not miss this engagement, for this will be an evening to remember. Arrive early, as seating will be limited.



There are two camps forming in Amateur Radio today. One camp involves the technology of RF com-

munications. The other camp are the users of networked communication.

Looking back to the early days of modern communications hams could be categorized as fixed or mobile. Some would build their stations in an unused room or garage. Others would hollow out the truck to install a mobile transceiver and its massive power supply.

Today, mobile communications ability is assumed, but the quality and reach of communications is more the issue. Few if any are finding ways to increase the distance of RF transmission paths, rather most of finding ways to reduce the size of the transceiver down to that elusive wristwatch-sized communicator. It seems as if to prove that they can operate camera-equipped, picture sending, music-playing, digital voice-enabled pocket rigs just like the kids.

Affordable, abundant cellphone communications made mobile access to net-

work services a trivial (but expensive) acquisition for the masses. Although relatively few understand how a cellphone works, every cellphone user understands how to contact an intended receiver. For ham radio operators, the cost of ownership of this equipment is the battle, but once overcome, communication may continue at relative little cost.

Are we to become a mass of amateur radio users who know relatively little about how the radio actually works? The romance of amateur radio has turned from how much you can build yourself to how much you can accumulate to buy it already made. We have moved the intelligence associated with radio communications from the licensed radio operator to the commercial supplier of amateur radio equipment. Who really owns the technology, then?

Surely there are applications for amateur radio that are necessary and beneficial to the common good, e.g. public service events, communication support for disaster relief teams, and the basic security interests of the nation. We have to build our internal technical strength in

FROM THE EDITOR

concert with increasing our external equipment resources. Are we all about the quantity of the contacts made with little or no effort, or are we all about the quality of contacts made with little or no resources?

I say purchase only what is needed to support our individual technical development, then share the technical discovery, design and development with others. This hobby is and should be as much about skill improvement as it is about breaking communications barriers worldwide.

HAMFESTS & CONVENTIONS

5/03/2015 | WARC Hamfest

Location: Newtown, PA
ARRL Hamfest: Warminster
Amateur Radio Club
Website: k3dn.org/hamfest.htm

10/02/2015 | Mid-Atlantic States VHF Conference

Location: Bensalem, PA
ARRL Convention pending Executive Committee approval
Mt. Airy VHF Radio Club
Packrats
Website: www.packratvhf.com

ON THE COVER

By Pat Ciarrocchi and Paul Kurtz

HOLLAND, Pa., (CBS) — With a fancy antenna, at least four science teachers, Ham radio technology and sheer determination, students at Council Rock High School South in Holland, Bucks County reached out and touched someone, far, far away. Two hundred twenty-four miles ABOVE the earth — not across it.

The classroom came to life Thursday as students placed a call to the International Space Station.

Ten science and technology students were given the opportunity to ask astronaut Samantha Cristoforetti one question each as the ISS passed directly overhead at 1:18 p.m.

Teachers Fred Bauman and Jerry Fetter say they were waking with a window of about eight minutes.

"They came above the horizon they were probably somewhere over Georgia and when they set they were over Nova Scotia. They came over us at about 275 miles traveling at 17,100 mph."

The scratchy sound of a two-radio tuning in echoed

through the auditorium at Council Rock South. This was a day months in the making.

For student Tom Hyndman, "Honestly, it's just so cool and interesting."

At an altitude 224 miles, and at a speed of 17, 500 miles an hour, Italian astronaut, Samantha Cristoforetti, answered a call from Council Rock, from the International Space Station.

"How do you read me???" You could hear through the crackle.

"We read you loud and clear," said science teacher Jerry Fetter.

Fetter, Jeff Warmkessel and a team of school colleagues, with education connections to NASA, came up with an out of this world idea. While the International Space Station is hurtling above Pennsylvania, why not call an astronaut?

Of course, a cell signal wouldn't reach. So Fetter engaged a team of eager Ham Radio operators to get the job done. They jumped without much coaxing.

"We're taking an antenna and aiming at them and they have a small antenna on the space station and we're having a contact," said long

time ham operator, Irwin Darack.

The mode of communication, ham radio, provided another lesson for students steeped in the ways of Skype, text messaging and social media.

"It's just amazing to see how technology from years ago mashed with technology today to produce such an organic and cool experience."

Katie Kotsopoulos lined up with other student interviewers to ask about 20 questions. "My question was how does the 90 minute orbit affect how they work," said Katie.

The answer? "Not so much," said Astronaut Cristoforetti, the first Italian woman in space. "We work on a regular 24 hour clock. We just go by our watches."

When questioned about managing weightlessness? "You have to find a way to secure yourself, otherwise you float away when you try to work."

The event is part of a program called ARISS — Amateur Radio and the International Space Station. They went with ham radio because it never fails – still the most reliable form of communication.

(Continued on page 11)

PENN WIRELESS ASSOCIATION

FEBRUARY MEETINGS



PWA Executive Board Minutes

Date :
02/09/15
Meeting
Opened at:

7:35 PM

In Attendance:

Paul Ceglia (N3TMX) – President

Tom Stafford (KE3QC) – Vice President

Howard Rubin (N3FEL) – Treasurer

Jim Petrosky (KE3LA) – Recording Secretary

Alex Gross (KB3SSY) – Corresponding Secretary

Guests: Mark Hinkle (WA3QVU)

Old Business:

Treasurer's Report:

General Fund

Starting Balance:

Ending Balance:

Expenses:

Repeater Telephone

Revenue:

Dues

Donations

Decal sales

50/50

Field Day Fund:

Donations:

Website: Several Board members noted very little progress on the new website. Board members remain in agreement that the old website must be taken down.

Board agreed on regaining control over the PWA domain name. Alex (KB3SSY) to generate letter to Jeff Salzman.

Repeater: No reported problems, working fine.

Membership: Jim (KE3LA) reported that the direct mail outreach is in progress, 200 postcards mailed. ARRL supplied brochures for recruiting new hams. New member packets complete. Public info display to be generated.

Activities: Mark (WA3QVU) shared program schedule for upcoming General Membership meeting:

February – Fldigi – Ron(NY3J)

March – PWA Auction

April – Software Workshop/
CW in Vietnam

May – Jet Aircraft of the '50's
Gary Campbell

June – Field Day

New Business:

Howard (N3FEL) requested the Board consider setting a universal date for dues to aid in bookkeeping and collection. Board moved to set dues collection to March.

Question on Pavilion rental for Club Picnic – Board approved Tyler Park as the venue.

Field Day budget – based on prior years, approximate costs should run \$20.00 per head. Field Day chairman (WA3QVU) would like to see donations

Service Award.

Discussion on advertising in X-Mitter for revenue generation.

Brief discussion on League request regarding Boy Scout and other youth programs. Tom (KE3QC) to further investigate.

Board approved Membership survey to be handed out for completion at the next General Membership meeting.

Meeting Closed at: 9:50 PM

PWA General Membership Meeting Minutes

Date: 02/16/15

Call to Order: 8:14 P.M.

Opening ceremonies: Pledge of Allegiance, Introductions

Guests: KC2OUV, KB3PNR, WE3L

Old Business:

Treasurer's Report:

By N3FEL

Board Actions Report: By N3TMX

Website construction continuing.

Scott (KD2EQP) reported on his progress of setting up the new website.

Repeater: By N3HTZ

Cully reports that the repeater is operating well. When weather breaks, he will visit the repeater site to clean up the Fusion installa-

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tion.

Membership: By KE3LA

Jim (KE3LA) reports the direct campaign is currently in progress. Approximately 50% complete.

VE. Report: By N3HTZ - One license upgrade at VE. session, Tech to General

X-Mitter: Howard (N3FEL) reported on efforts to publish the new and improved X-Mitter. KB3SY initiated member discussion on use of Facebook and other social media for club activities.

Activities/Public Service:

Field Day - Club seeking member donations to defray operation costs of Field Day

Break

Meeting reconvened: 8:45 P.M.

Presentation: Digital Modes, Emphasis on FLdigi by Ron (NY3J) - video presentation and application demo.

Additional:

50/50 drawing

Meeting Adjourned at: 9:45 P.M.

Submitted by: Jim (KE3LA) -
Recording Secretary

MARCH EXECUTIVE BOARD MINUTES

PWA Executive Board Minutes

Date: 03/09/15

Meeting Opened at: 7:45PM

In Attendance:

Paul Ceglia (N3TMX) - President

Tom Stafford (KE3QC) - Vice President

Howard Rubin (N3FEL) - Treasurer

Jim Petrosky (KE3LA) - Recording Secretary

Old Business:

Treasurer's Report:

Starting balance:

Ending balance:

Gain:

Dues:
50/50:

Sales:

Donations:

Field Day Fund:
Check to Tyler
Donations

Board accepted by unanimous vote.

Repeater: No reported issues.

Membership:

Jim (KE3LA) reports direct mail campaign completed. To date approximately 600 post cards mailed. Approximately 12 returned for bad addresses. Three contacts via email expressed interest in attending the General Mem-

bership meetings. Traveling brochure holder presented to Board.

Activities:

Field Day: Tom (KE3QC) to check on application status.

Picnic: Tom (KE3QC) reported that the pavilion (Tyler) is not available for use during the picnic/NAQP event.

New Business:

Howard (N3FEL) reported on activities by Scott to bring the new web site on line.

Discussion on past due members and best way to remind them.

Discussion on identifying existing club asset location and current status for insurance purposes.

Several members working to setup WIRES-X for the new Fusion repeater.

Howard (N3FEL) discussed requirements necessary to maintain non-profit status. Annual cost is \$70.00 (to the Corporation Board) if any changes made to the 'Corporation'. Most significant annual change is election of new Board members. Board voted to allocate funds.

Meeting Closed at: 9:35 PM

Submitted by: Jim (KE3LA) -

MAKE YOUR OWN DIPOLES



... With these center insulators

Dan Romanchik, KB6NU

One of the things that always gets my goat is the price some companies charge for dipole antennas. It's not that they're charging an outrageously large sum of money, and I certainly don't begrudge them making a profit for their efforts. It's just that if hams would just buy their own wire and parts, they would not only save money over the long run, but be encouraged to experiment with antennas. That's what I started doing about ten years ago, and I've been very happy with the results.

One of the first things that I did was to purchase ten Budwig HQ-1 center insulators and ten HQ-2 end insulators (<http://www.budwig.com/antenna-connector-insulators.html>). I've made a bunch of antennas with these insulators, including several 40m/20m inverted vees for portable use (such as Field Day and special events), a 17m dipole, and a 10m loop an-

tenna. These insulators are very well-made, and can easily be reused, too.

Universal Radio sells the set (<http://universal-radio.com/catalog/antsup/1782.html>) for \$18.50. I just placed another order for ten HQ-1s and 20 HQ-2s (the minimum number that you can purchase to get a quantity discount). The price, including shipping, is \$143.

There are a bunch of other center insulators on the market, including:

- * The Alpha Delta Delta-C antenna hardware kit (<http://universal-radio.com/catalog/antsup/0297.html>) consists of a Delta-C Center Insulator, antenna connecting hardware, 1 SEP Arc-Plug™ static protector (installed in Delta-C) and 2 Delta-CIN end insulators. This is a little heavier-duty than the Budwig insulators, but it costs more, too (\$30 at Universal Radio). Unless you're going to be running a kW, I don't see the need to spend nearly twice as much money on these insulators.

- * The TEN-TEC ACRO-BAT Antenna Connector & Hanger ([http://www.tentec.com/products/ACRO%252dBAT-Antenna-](http://www.tentec.com/products/ACRO%252dBAT-Antenna-Connector-%26-Hanger.html)

[Connector-%26-Hanger.html](http://www.tentec.com/products/ACRO%252dBAT-Antenna-Connector-%26-Hanger.html)) is an interesting product. Unlike the Budwig and Alpha-Delta insulators, this product does not have an SO-239. Instead, this insulator clamps over the coax and antenna wire, and in doing so, provides strain relief. I haven't tried this one, but it seems like a nice design. The cost is \$10, directly from TEN-TEC or from Universal Radio.

- * The Unadilla W2AU ANsulator (<http://universal-radio.com/catalog/antsup/0913.html>) is made from PCV tubing and include eyelets for terminating the antenna wire and for supporting the insulator in the middle. For \$15, I think I'd rather have the Budwig insulator. Also, you should be able to make one of these insulators for less than 15 bucks.

- * The Hy-Gain C-1C Center Insulator (<http://www.hy-gain.com/Product.php?productid=C-1C>) has a screw for tightening down the antenna wire, so you don't have to do any soldering, but overall, I don't think I like the looks of this model. And, at 30 bucks, it seems kind of pricey

- * The W8AMZ Dipole Antenna Starter Kit (<http://www.w8amz.com/>

PENN WIRELESS ASSOCIATION

W8AMZ_ACC_Page.html) comes a center insulator made from PVC pipe, similar to the Unadilla W2AU ANsulator and two end insulators. It costs \$18.

If none of these strikes your fancy, you can always make your own. WP4AOH has some very good instructions on how to do this using PVC pipe and fasteners that you can find at your local hardware store (<http://wp4aoh.blogspot.com/2012/07/dipole-antenna-center-insulator.html>).

Whatever route you take, I encourage you to keep several on hand and enough antenna wire and coax to complete the antenna. You never know when the urge will strike you to build an antenna, and if you don't have the parts you've missed an opportunity to do some experimenting.

When he's not digging through his junk box or teaching amateur radio classes, KB6NU writes about amateur radio at KB6NU.Com.

ing Fun with Morse Code is now available in [PDF](#), Kindle and [Nook](#) e-book formats. Written in my "no nonsense" style, this book is designed to not only help you get started in CW, but to have fun doing it. The book is available on Amazon.Com or on KB6NU.Com.

CLASSIFIED ADS

VIVITAR CAMERA TRIPOD

Very light weight and complete with carrying case. \$10 each. (includes \$2 donation to PWA.) Five available.

Email n3fel@arrl.net or call Howard at 267-304-6949.



www.vivitar.com/products/13/tripods/125/vpt-2457

www.amazon.com/Vivitar-VPT2457-57-Inch-Tripod-Black/dp/B002FBDD6K



BEGALI CW KEY

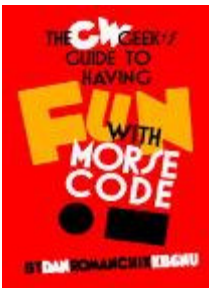
The **Sculpture Mono** was designed to represent the ultimate key of its type, combining materials and state-of-the art techniques that set it apart from anything else on the market.

This fine work of art was graciously donated by Bob Hecht, KA3ZKJ to benefit Penn Wireless Association.

The CW Key, SN#871 is brand new, with documentation and original packaging. It is available now in exchange for a cash donation of \$500. to Penn Wireless Association. *Note: Consult your tax advisor. A donation of cash and items of material value to a 501(c)3 Non-Profit Organization may qualify as a substantial tax-deductible event.*

Email n3fel@arrl.net or call Howard at 267-304-6949.

<http://www.i2rtf.com/html/sculpture-mono.html>



He has just released *The CW Geek's Guide to Having Fun with Morse Code*. The CW Geek's Guide to Hav-

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W1AW 2015 SPRING/SUMMER OPERATING SCHEDULE

Morning Schedule:

Time	Mode	Days
-----	-----	-----
1300 UTC (9 AM ET)	CWs	Wed, Fri
1300 UTC (9 AM ET)	CWf	Tue, Thu

Daily Visitor Operating Hours:

1400 UTC to 1600 UTC - (10 AM to 12 PM ET)
1700 UTC to 1945 UTC - (1 PM to 3:45 PM ET)

(Station closed 1600 to 1700 UTC (12 PM to 1 PM ET))

Afternoon/Evening Schedule:

2000 UTC (4 PM ET)	CWf	Mon, Wed, Fri
2000 " "	CWs	Tue, Thu
2100 " (5 PM ET)	CWb	Daily
2200 " (6 PM ET)	DIGITAL	Daily
2300 " (7 PM ET)	CWs	Mon, Wed, Fri
2300 " "	CWf	Tue, Thu
0000 " (8 PM ET)	CWb	Daily
0100 " (9 PM ET)	DIGITAL	Daily
0145 " (9:45 PM ET)	VOICE	Daily
0200 " (10 PM ET)	CWf	Mon, Wed, Fri
0200 " "	CWs	Tue, Thu
0300 " (11 PM ET)	CWb	Daily

Frequencies (MHz)

CW: 1.8025 3.5815 7.0475
14.0475 18.0975 21.0675 28.0675 147.555
DIGITAL: - 3.5975 7.095 14.095 18.1025
21.095 28.095 147.555
VOICE: 1.855
3.990 7.290 14.290 18.160 21.390 28.5
90 147.555

Notes:

CWs = Morse Code practice (slow) = 5, 7.5,

10, 13 and 15 WPM

CWf = Morse Code practice (fast) = 35, 30, 25, 20, 15, 13 and 10 WPM

CWb = Morse Code Bulletins = 18 WPM

CW frequencies include code practices, Qualifying Runs and CW bulletins.

DIGITAL = BAUDOT (45.45 baud), BPSK31 and MFSK16 in a revolving schedule.

Code practice texts are from QST, and the source of each practice is given at the beginning of each practice and at the beginning of alternate speeds.

On Tuesdays and Fridays at 2230 UTC (6:30 PM ET), Keplerian Elements for active amateur satellites are sent on the regular digital frequencies.

A DX bulletin replaces or is added to the regular bulletins between 0000 UTC (8 PM ET) Thursdays and 0000 UTC (8 PM ET) Fridays.

Audio from WA's CW code practices, and CW/digital/phone bulletins is available using Echo-Link via the W1AW Conference Server named "W1AWBDCT." The CW/digital/phone audio is sent in real-time and runs concurrently with WA's regular transmission schedule.

In a communications emergency, monitor W1AW for special bulletins as follows: Voice on the hour, Digital at 15 minutes past the hour, and CW on the half hour.

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EPA SECTION NEWS

Just a reminder to monitor 3917 kHz during actual or potential disaster conditions in and around the EPA Section.

While tomorrow's snow-storm probably won't require our services as radio amateurs, it's a good discipline we want to encourage all our members to do.

It's also a good way to meet EPA's section staff and fellow League members who are frequent check-ins to the formal 6pm net, the EPAEPTN.

The EPAEPTN -- or more formally, the Eastern Pennsylvania Emergency Phone & Traffic Net -- was formed in response to deadly hurricanes Hazel, Connie and Diane from the mid-1950s. Mobile units reported flooding and emergencies to their AREC and RACES liaisons, from there to Civil Defense and National Guard resources brought in for search and rescue work.

EPAEPTN has been our official Section HF net ever since and is also our EPA NTS affiliate, with regular

liaison to 3RN Cycle 2 and the NTSD.

If you're monitoring 3917, just announce yourself periodically to see who's there and strike up an old fashioned ragchew.

A note to Technician class licensees: don't forget you have HF privileges too, and may join the Pennsylvania Traffic Net on 3585 CW. Novices and newbies very welcome no matter your skill level with a straight key!

Hope to see you there!

VY 73 DE W3JY
Joe

Follow us on Twitter
@EpaARRL and on the web
www.epa-arrrl.org

Remember to visit our Section nets:

* EPA Emergency Phone and Traffic Net (EPAEPTN) nightly at 6pm on 3917 kHz

* Pennsylvania Traffic Net (formerly "EPA") nightly at 7 and 10pm on 3585 kHz

* EPA Echolink Net (EAETN)

Thursday at 8pm on
AA3RG 146.640- 82.5 and
on Echolink AA3RG-R

(Continued from page 5)

Katie said the experience blew her mind.

"When you're talking to someone who is not currently standing on the planet and they're in space, it's just fantastic."

That's the reaction that Fetter was eager to hear.

"Students today are used to using their cell phones and modern technology to see them get inspired by something that has been used over the decades has been encouraging to me."

Science student Tom Hyndman is now thinking about giving aerospace a whirl.

"It's amazing to see that technology used years ago matched with technology today produced such an organic and cool experience for everybody really."

Very cool, indeed.

PENN WIRELESS ASSOCIATION

March 2015

Sun	Mon	Tue	Wed	Thu	Fri	Sat
1	2	3	4	5	6	7
Technet 8PM			BCARES Net 9PM 147.090			
8	9	10	11	12	13	14
Technet 8PM	PWA E-Board Meeting 7:30PM		BCARES Net 9PM 147.090			
15	16	17	18	19	20	21
Technet 8PM	PWA General Meeting 8 PM Annual Auction		BCARES Net 9PM 147.090	Arduino uP SIG Mtg 7:30PM Falls Rm 205		
22	23	24	25	26	27	28
Technet 8PM			BCARES Net 9PM 147.090			
29	30	31				
Technet 8PM						

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April 2015

Sun	Mon	Tue	Wed	Thu	Fri	Sat
			1	2	3	4
Technet 8PM			BCARES Net 9PM 147.090			
5	6	7	8	9	10	11
Technet 8PM			BCARES Net 9PM 147.090			
12	13	14	15	16	17	18
Technet 8PM	PWA E-Board Meeting 7:30PM		BCARES Net 9PM 147.090	Arduino uP SIG Mtg 7:30PM Falls Rm 205		
19	20	21	22	23	24	25
Technet 8PM	PWA General Meeting 8 PM		BCARES Net 9PM 147.090			
26	27	28	29	30		
Technet 8PM			BCARES Net 9PM 147.090			

Volunteer Examiners

Take the FCC Amateur Exam...

Our ARRL/VEC VE Team is ready and willing to administer any license grade/upgrade or code element test. Confirm your intention to test with Ben Johns, VE Contact at 215-657-5994 not later than the Friday evening before the 3rd Monday of the month. Please advise us in advance of any special needs you may have in successfully completing the intended test. Our testing session begins promptly at 6:30 pm and remains active until all license grades desired are administered. We do not recommend, nor is it our practice, to administer repeat examinations of similar license grades to any candidate. However, progressive license grades may be attempted by any applicant at no additional charge. Please come prepared with the following items.

- ◆ Confirmation of appointment letter, email, note, etc. Walk-ins are not guaranteed a test session.
- ◆ Test fee of \$15 in cash or personal check payable to ARRL/VEC.
- ◆ Either of the following ID methods:
 - One legal photo ID (driver or non-driver license, passport, radiotelegraph license, or other legal photo ID)

OR

- Any two of the following IDs: Non Photo ID/Driver License, Social Security Card, Birth certificate, Minor's work permit, Utility bill, bank statement, business correspondence specifically naming the person, postmarked envelope ad-

ressed to the person at their mailing address as it appears on the FCC Form 605

- ◆ Any of the following ID numbers: Taxpayer ID (Social Security Number), IRS issued EIN (Employer Information Number), Alternate taxpayer ID Number (ATIN), FCC Issued Registration Number (FRN), FCC Issued Licensee ID Number
- ◆ The ****original**** plus one copy of your FCC license or CSCE (Certificate of Successful Completion of Examination). The original will be returned immediately to you.
- ◆ If applicable, a Physician's Statement if necessary to validate your claim of difficulty at reading, writing or speaking when requesting special assistance.
- ◆ A calculator is recommended and allowed if ALL internal memories are cleared and can be demonstrated free of information. A simple four-function calculator is suggested.
- ◆ One or more black-lead pencils and eraser, and a ball point pen.



*Penn Wireless Association
P.O. Box 925
Levittown, PA 19058*



APPLICATION FOR MEMBERSHIP

Personal Information (please print):

Name: _____ Date : _____

Street Address: _____

City: _____ State _____ Zip _____

Home Phone: _____ Cell Phone: _____

Birth Date: _____ Occupation: _____ ☐ active ☐ retired

License Information:

Call Sign: _____ Class: ☐ Novice ☐ Tech ☐ General ☐ Advanced ☐ Extra

Date First Licensed _____ Previous Calls: _____

Preferences:

ARRL Member? _____ Other Clubs? _____

Bands/Modes Frequently Operated _____

Emergency Power? _____ Portable/Mobile? _____

Favorite Amateur Radio Activities: *(note all that apply)*

- | | | | |
|-----------------------------------------|---------------------------------------|------------------------------------------|----------------------------------------------|
| <input type="checkbox"/> Awards | <input type="checkbox"/> Traffic | <input type="checkbox"/> Contesting | <input type="checkbox"/> Digital Radio |
| <input type="checkbox"/> Rag Chewing | <input type="checkbox"/> MARS | <input type="checkbox"/> Field Day | <input type="checkbox"/> QRP |
| <input type="checkbox"/> Projects | <input type="checkbox"/> Newsletter | <input type="checkbox"/> Fund Raising | <input type="checkbox"/> Renewable Energy |
| <input type="checkbox"/> DX'ing | <input type="checkbox"/> Fox Hunting | <input type="checkbox"/> Public Service | <input type="checkbox"/> QSL Card Collection |
| <input type="checkbox"/> County Hunting | <input type="checkbox"/> Packet Radio | <input type="checkbox"/> Rig Restoration | <input type="checkbox"/> _____ |
| <input type="checkbox"/> Education | <input type="checkbox"/> Hamfest | <input type="checkbox"/> Antennas | <input type="checkbox"/> _____ |

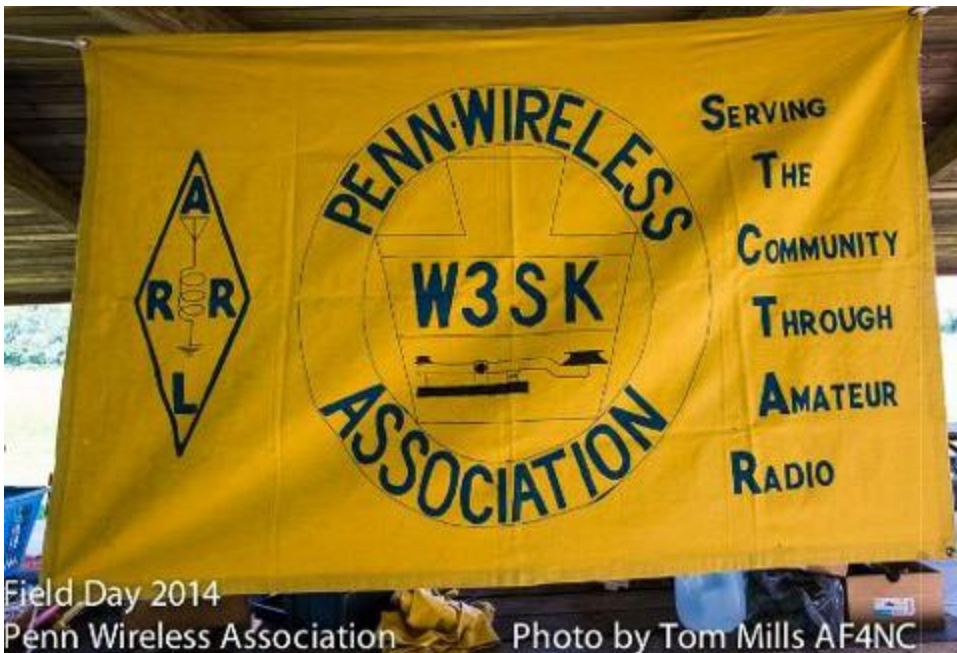
Comments: _____

Sponsored By: _____ Annual Dues: \$20. Paid _____

PENN WIRELESS ASSOCIATION

Executive Board ...

PRESIDENT	PAUL CEGLIA, N3TMX 610-608-9584	cegtv1@aol.com
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Silver Service Award

Penn Wireless Association sponsors the Silver Service Award to recognize amateurs who have performed outstanding service to their club, their community and Amateur Radio. Nominations are accepted throughout the year and a candidate is selected to be honored at our annual banquet or holiday dinner. Nominations should be mailed to PWA Silver Service, c/o Penn Wireless Association, P.O. Box 925, Levittown, PA 19058.

Field Day is a time for amateur radio operators to show the world what grass roots communication is all about.



JUNE 27-28, 2015

Join PWA at our annual Field Day exercise. Sign up now for a station assignment. Station locations are to be awarded soon (see note.) Don't hesitate, as the best assignments and locations will no longer be available. Field Day committees are forming now. Plan to serve on one or more of the following and help Penn Wireless Association bring out the best exercise experience this side of Newington.

- | | | |
|--------------------------------|----------------------------|----------------------------------|
| ✓ GOTA Station / Recruitment | ✓ Safety / First Aid | ✓ Field Day Ways and Means |
| ✓ Antenna Planning / Setup | ✓ CW, SSB, & Digital Modes | ✓ Power Generator / Distribution |
| ✓ Public Awareness / Relations | ✓ Education/Training | ✓ Food Planning / Preparation |

Note: Station assignment and location options are initially offered to participating band captains of FD 2014. After that, assignments are offered to band captain applicants in descending order of highest license class on a first-come, first served basis. For additional details, contact your Field Day 2015 Chairman, Mark, WA3QVU.

**X-MITTER
P.O. BOX 925
LEVITTOWN, PA 19058**

*If undeliverable as addressed,
return requested*
