



PAWA Lines

Portland Amateur Wireless Association Newsletter

Portland Amateur Wireless Association Repeaters

W1KVI Falmouth: 146.730MHz (-600KHz) (T 100.0Hz)

W1KVI Scarborough: 444.100MHz (+5MHz) (T 82.5Hz)

Portland Amateur Wireless Association Board of Directors

President	Jason Cote	W1WDW	W1WDW@jcwebdesign.com
Vice President	Bryce Rumery	K1GAX	K1GAX@juno.com
Secretary	Ariel Cote	KC1CCB	KC1CCB@jcwebdesign.com
Treasurer	Jack Ney	KC1UX	kc1ux@maine.rr.com
Chief Operator	Ross Drivas	KB1OND	rmdkb1ond@yahoo.com
Member at Large	John Bogner	W1JLB	JBogner1@maine.rr.com
Member at Large	Joseph Shortill	W1XXV	shortill5@yahoo.com

Club Birthdays

Hi 24th- Jim Fraser, KB1SDK

On The Web

Please visit us on the web! We have pages on Twitter, Facebook and the world wide web. Check out our addresses at the top of the newsletter's first page, follow us on Twitter, and like our page on Facebook to stay up to date on club activities. If you have something to add, please let us know!



Growing wiser?

Send us your birthday to include in the newsletter!



Welcome Back

You're invited to our September BBQ!



New Website!

We are launching a new website!

President's Message

Jason Cote - W1WDW

Happy Summer Everybody!

It has been a scorching summer, and with fall right around the corner, the monthly PAWA meetings have returned. The next meeting will also double as our welcome back BBQ and will be held at Turkey Hill Farm in Cape Elizabeth. Special thanks to Peter Eastman - N1AKP and Meghan Wakefield for allowing us to continue to use the facility.

In other news, your Board of Directors has been hard at work meeting during the summer break to address some growing problems and looking at some new ideas. Ariel - KC1CCB will have her report on the proceedings later in this edition.

Also, I am happy to announce that the PAWA is jumping into the 21st century with a new website! the new website is currently live and mostly finished at this point, just needs some fine adjustment. Check it out at www.pawa-maine.org.

That's all folks, I hope to see you all at Wednesday's BBQ!

- Jason, W1WDW - President

Treasurer's Report

August 2018	
Beginning Balance	\$824.76
Income	\$320.00
Expenses	\$738.42
Ending Balance	\$406.34

Secretary's Report

Ariel Cote - KC1CCB

An Emergency Board Meeting was called in July to discuss the lack of funds available for the impending insurance bill due in September.

\$400 of our then current \$506 balance was allocated for the trailer fund, therefore not leaving enough to cover the 320\$ annual insurance cost.

Two members who wish to remain anonymous volunteered to donate the entirety of the insurance expense. The club is very thankful for their generosity!

In addition to the insurance bill, we needed to pay rent through September. It was unanimously decided to re-allocate the appropriate funds from the trailer fund with the stipulation that the money be replaced into said fund at the earliest possibility.

UPCOMING EVENTS

Next meeting:

Wednesday, September 5th, 2018 - 7pm **WELCOME BACK BBQ**
Turkey Hill Farm - 120 Old Ocean House Rd, Cape Elizabeth

Contests:

8-10 September VHF
15-16 10 GHz & Up - Round 2
29-30 EME - 2.3 GHz & Up



Inability to plan the HamFest leaves us without the capacity to have it in early fall as we had hoped.

In order to generate revenue for the club in addition to dues, It has been suggested that we sell the spare repeaters and unused equipment in the radio room. At this time we potentially have the Kenwood 920, a VHF repeater and UHF repeater that may be worth looking into their value in the future.

To avoid this becoming a recurrent issue for the club, it was suggested we look into a more affordable venue to hold monthly meetings. The Cumberland County chapter of the Red Cross has been suggested as a no-cost alternative. Bryce Rumery, K1GAX, has volunteered to get in touch with Allie (our current contact for ARES) and research the possibility of changing locations.

Board of Directors Meeting

Wednesday, August 8th, 2018

Bryce unable to contact Allie (she was on vacation and now deployed out west for the wildfire disaster in California). Possibility of instead contacting the chapter director to pursue the possibility of moving our general membership meetings to their space on outer Congress Street.

The Red Cross may not have space for HamFest, but since the space would be free to use, we wouldn't be as dependent on its revenue.

Megan Wakefield has generously requested we consider having the annual BBQ at Turkey Hill Farm this year. It was an easy decision for the board and a resounding yes! As always, hot dogs will be provided by the club for members, non-members are welcome with a 5\$ donation and we ask that participants bring a side dish to share.

Please feel free to bring family & friends and join us **WEDNESDAY, SEPTEMBER 5TH at 7PM** at 120 Old Ocean House Road in Cape Elizabeth for the general membership meeting and food! Feel free to come a little early to help set up if you're available.

In other news, the new website layout is going live! We will be archiving the newsletters to make them publicly available on this new site. Potentially we could use the

site for polling for such things as Ham of the Year, posting classifieds and members could write an editorial to be featured.

You can preview the new layout here! <http://pawa.jcwebdesign.com> There will be a new domain name once it is finished being set up.

Chief Operator's Report

Ross Drivas - KB1OND

No report was available

Field Day Recap

Jason Cote - W1WDW

Field Day 2018 was a great success again this year, we ended up having decent weather, a small turnout, and lots of contact made. Overall, we logged 241 contacts, worked over half the ARRL sections, completed 5 of the 11 districts, and used all 3 types of communication modes (Phone, CW, & Digital).

Special thanks to Ariel - KC1CCB and Ross - KB1OND for their round the clock operation that brought in some awesome contacts. Also, a special thank you to everybody who participated, helped set up and break down, and cooked food. Once again Turkey Hill Farm proved to be a great location for this annual event.

Keep in mind, it may only be September, but we need to start thinking about next year's field day and possible venues and new ideas for ways to bring in more people. Please see any member of the board to hear your ideas!

DMR Programming 101

Jason Cote - W1WDW

I am still planning to conduct a detailed DMR codeplug programming and familiarization course for any member interested in learning how DMR works and how to plan, outline and program your own custom codeplug or "radio program" for your DMR radio. I will cover what you need to know when it comes to getting your radio to communicate with your computer, how to plan your codeplug, how to create zones, talk groups, contacts, and channels. We will cover several different types of DMR radios including portable and mobile rigs. Requirements for the class are your own DMR radio, can be portable or mobile with appropriate power supply and an antenna or dummy load, a windows computer running windows 7 or later with proper programming software for your radio, and the appropriate programming cable for your radio. If you're interested in attending the class, please email me at W1WDW@yorkcountyares.com. Date and venue will be announced soon. If you own a DMR radio, you'll want to attend this course!

Another Almost Forgotten Band

Bryce Rumery - K1GAX

I covered 1 ¼ meters. Now I'd like to say a few words about 6 meters.

Most modern HF rigs include 6 meters. There are any number of 6 meter rigs on the market.

These can take the form of larger HF rigs to smaller mobile rigs and even hand held transceivers.

Modes range from CW, RTTY digital modes as well as AM, SSB and FM.

When propagation is good one can work much of the coastal areas and somewhat inland. There are 6 meter repeaters, but they are not really plentiful.

Six meters can be interesting and a lot of fun for those that don't have a lot of HF privileges.

Why not give 6 meters a try. You may be pleasantly surprised!

73, Bryce

3D Printed Parts for Ham Radio

Dan Romanchik - KB6NU

One of the things that I keep telling myself that I need to learn how to do is 3D printing. This morning, I ran across a couple more 3D printing projects for ham radio that I thought I'd pass along.



The first I found on reddit: 3D Printed Parts for Portable Tape Measure Yagi Designs (https://www.reddit.com/r/amateurradio/comments/963br3/3d_printed_parts_for_portable_tape_measure_yagi/). The summary on Thingiverse (<https://www.thingiverse.com/thing:3042505>), which is a website where "makers" share their designs, says:

These parts are made for use with 1-in. PVC pipe and 1-in. Harbor Freight tape measure steel. You

can use electrical tape to attach the element holders to the side of the pipe, and use the driven element bridge to give structural rigidity across the driven dipole element. I have used this with up to 5 elements on 2m with good success. When not using the antenna, just pinch the elements to remove them from the holders, and store them INSIDE the tube! you can add some end caps to make this ultra portable. Use these parts with any of the multitude of tape measure YAGI design guides online.

Here's a look at an antenna made with these parts:



The element holders are attached to the boom with electrical tape in the photo above. While I haven't tried it, I'd suggest that the antenna might be a bit more robust if you could screw or perhaps glue the holders to the boom.

There are lots of other cool amateur radio 3D printing projects available on Thingiverse (<https://www.thingiverse.com/search?q=ham+radio&dwh=415b6d8da129c3c>). Browsing through the list quickly, here are just two that look like they might be useful to me:

- Soldering Fingers (<https://www.thingiverse.com/thing:1725308>). This project looks simple and quick.

- μ Bitx Case (<https://www.thingiverse.com/thing:2925336>). I still gotta do something with the μ Bitx I bought. This looks like it might get me started.

Finally getting in gear

Last week, I attended a 3D printing class at our local maker space, All Hands Active (allhandsactive.org), and now I feel like I can finally attempt a 3D printing project. I'm thinking about starting out with the simple Soldering Fingers project. If that goes well, I'll try a Raspberry Pic case and finally start using that in the shack. And, while these projects all seem pretty cool, I feel like I'm only scratching the surface.

Have any of you 3D printed anything cool for your ham radio projects? Is there another source of designs for ham radio 3D printed stuff besides Thingiverse?

When he's not 3D printing enclosures for his ham radio projects, Dan blogs about amateur radio, writes exam study guides (www.kb6nu.com/study-guides), and operates CW on the HF bands. Look for him on 30m, 40m, and 80m. You can email him about your experiences with 3D printing at cwgeek@kb6nu.com.