SKYVIEW
Skyview Radio Society, K3MJW
K3MJW
2335 Turkey Ridge Road
New Kensington, PA 15068

Q5er – The Official Newsletter of the Skyview Radio Society

June 1, 2024

Sunspot Numbers Close To Peaking ??

Time to exercise the 10-12-15-17-20 Meter bands While They are Hot

Hamvention 2024

Sponsored by Dayton Amateur Radio Association

May 17-19

67th Annual — Largest Hamfest in the Tri-State Area

BreezeShooters

HAMFEST / ELECTRONICS / COMPUTER SHOW

Web Site: http://www.breezeshooters.org Email: hamfest@breezeshooters.org

Sunday June 9, 2024

8am-2pm (vendor setup Saturday 2pm-8pm, Sunday 6am-8am)

Butler Farm Show Grounds

625 Evans City Road, Butler, PA 16001

(same as last year!)

SKYVIEW
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2335 Turkey Ridge Road
New Kensington, PA 15068

Swap & Shop
Sunday, August 25, 2024

(Saved the Best for Last - Put it on your calendar now)

2024 is Skyview's 64th Anniversary !!

Inside this issue:

The Skyview Radio Society Clubhouse is the "Every Tuesday Place" . . .

Something is going on at 'the joint' each and every Tuesday evening, from about 1900 hours to whenever.

See the general schedule of Tuesday events on the Skyview Web Page: http://www.skyviewradio.net

For the latest up-to-date plan, check the Groups.io Reflector at : https://groups.io/g/K3MJW

Directions are on: http://www.skyviewradio.net Guests are always welcome !!

From the Editor

Nice selection of articles this month.

Always looking for more.

With me, it is often something that I have built or modified. Or perhaps an experience that I have had. I figure that perhaps what I have done may be of interest to others. So, I write it up. Of course it helps to know that I will eventually write a article so that I take some photos along the way.

You really do not have to be a great writer. I got some lousy grades on the stuff that I wrote back whenever I was taking English classes. Maybe that still shows. But I don't let that stop me !!

Jody - K3JZD

Remember: The number of people older than you never increases, it only decreases

Ham Radio is a Contact Sport

From the Treasurer

We remain comfortably positioned as far as paying our fixed expenses for the rest of this year. Owning a club-house can be a financial burden. But fortunately we have enough faithful dues paying members to keep the lights on.

We have had some equipment repair expenses due to lightning strikes. While we have lots of grounding protection, the lightening keeps finding unprotected paths.

We utilize the income from our annual Swap & Shop to repair equipment and purchase new equipment. So, we appreciate all of the members and guests who support our annual Swap & Shop. It will be on Sunday, August 25th this year. So save the date.

Tax deductable contributions also help.

Jody - K3JZD

ADVENTURE: The respectful pursuit of trouble

Skyview Radio Society is recognized by the Internal Revenue Service as a charitable non-profit organization under Section 501(c)(3) of the IRS Code. Donations to Skyview are tax deductible to the extent permitted by law.

Continue Use the Skyview Facilities At Your Own Risk - It is Not Really Totally History Yet.

Follow https://groups.io/g/K3MJW for COVID updates.

Any bookmark costing more than a dollar is a waste of money because you could just use the dollar - unknown

May 2024 Business Meeting Minutes

de Don - WA3HGW

Skyview Radio Society

Monthly Business Meeting – May 07,2024

Call to Order: 7:30 PM by President Brian Manley, K3ES.

Attending – 26 Members: N3WMC, AC3Q, KC3PXQ, K3CLT, W3IU, W3ZVX, AC3KI, ACØKK, K3JZD, WA3HGW, KQ3S, K3ES, KE3IF, AC3IE, W3UY, KC3CBQ, K3FAZ, AB3GY, WA3KFS, N3DRB, N2MA, KC3CVX, KE3Z, WC3O, KF3C and AG3I.

Prior Meeting Minutes: The minutes of the April 2, 2024 meeting were distributed for member review. A motion to accept the minutes as presented was made by N3WMC and seconded by AC3KI. The motion passed without objection.

Treasurer's Report: Treasurer Jody, K3JZD, reviewed the Financial Report of 30 April 2024. Jody noted April fixed expenses were all the normally expected bills. Additional expenses included a replacement antenna switch, some components to repair the rotor control boxes and moving the water heater in the existing rest room. Income was from the April 50/50 drawing, VE exams and kitchen plus T-bill interest. A motion to accept the Treasurer's Report as presented was made by KC3PXQ and seconded by AC3KI. The motion passed without objection.

Membership Report: Tom, AB3GY, advised there is one new membership. AB3GY made a motion to open the membership rolls, which was seconded by AC3KI. The new application is from Joel LeFevre, KC3MIQ, a Technician class from Pittsburgh. Joel is a former member whose membership had lapsed. AB3GY made a motion to accept which was seconded by AC3KI. The motion passed without objection. Ab3GY made a motion to close the membership rolls, which was seconded by AC3KI. (Do you see a pattern here?) The motion passed without objection. Membership now stands at 151.

Radio Officer Report: Bob, WC3O, reported that everything is up and running well. He is installing opto-isolators in the rotor control serial port wiring to avoid future problems from lightning strikes. While there is lightning protection on the rotor cables, somehow it is getting into the serial control lines. The optical isolation should help prevent problems. Also needed is replacement of the lift cable on the crank-up tower. We have the parts, just need time and manpower to get the work competed.

Kitchen Report: Bob, WC3O, said there is $300 in the kitchen fund. Kitchen supplies have been replenished.

VE Report: There was one license upgrade at the April VE test session. Presently there is one person pending for the next VE session on May 11. The May VE date was moved up a week due to the Dayton Hamvention falling on our normal VE testing date.

Newsletter: The April issue of the *Q5er* is out with lots of fine articles for our members to read. There are 48 pages in this issue. Thanks for all the great articles. Jody is looking for even more submissions by May 15 for the June issue.

Facilities: Dave, N3TIN, reported that drain pipe in the kitchen sink was repaired and the hot water heater relocated. All is working well now.

Building Committee: AG3I reports the drywall was installed by a contractor. Mike Recklitis and Don Stewart have completed most of the interior painting. Only the hall ceiling and the two rest room stalls need a final coat of white paint. The next tasks are to install the lighting fixtures and flooring. Marty asked if any members have a screen box to sift the earth dug out for the rest room foundation. This will remove the rocks and stones from the earth to be used for grading the area next to the sidewalk for planting grass seed. Also looking for volunteers for sifting the dirt.

Operating Events Recap: Club members participated in Hams for PanCan, The KD3KA special event celebration for the 150th birthday of Frank Conrad of KDKA radio founding fame, plus communications support at the Pittsburgh Marathon.

Calendar of Events:
May 17 to 19 – Hamvention 2024 Xenia, OH (Plus a whole lot more!)
June 9 – Breezeshooters Hamfest (biggest in the area!) Butler Farm Show grounds.
June 22 – Rachel Carson Trail Challenge
June 22 & 23 – ARRL Field Day. As usual we will have two Field Day sites.
July 1 through 7 – 13 Colonies Special event. Operations from K3LR on July 6.
August 3 & 4 – Pittsburgh Vintage Grand Prix, Schenley Park.
August 7 – Somerset K3SMT Hamfest.
August 10 – W3PIE Uniontown ARC 73rd annual Gabfest
August 17 & 18 – Westmoreland County Air Show at Arnold Palmer airport.
August 25 – Skyview Radio Society annual Swap & Shop. Set-up on Saturday August 24.

Old Business: Nothing at this time

New Business: There was in inquiry into the status of House Bill PA-37. This would have made the use of any hand-held device while operating a motor vehicle illegal. It was reported that an exemption was made for "A mobile or handheld radio being used by a person with an amateur radio station license issued by the Federal Communications Commission."

Weather Night:
May 14 – Rich Redman from NWS PIT presenting a class on summer weather.
June 13 – Moved from Tuesday to Thursday evening. A tour of the NWS office in Moon Twp. At 6:30 PM sharp. There will be a weather balloon launch at 7 PM. Optional meet for dinner at the Eat & Park on University Blvd at 5 PM,

Elmer Night: May 20. Possible presentation on the HamClock program. If not, we will have a Dayton Hamvention report.

Net Report: Check-in numbers averaged 46 in April. KC3TTK was the check-in NCS leader with 49 on April 4. If you want to volunteer for net control, contact K3STL or WC3O.

50/50 Drawing: The 50/50 total collected was $47. The winner of $23.50 was Steve, K3FAZ.

Meeting Adjourned: A motion to adjourn was made by KC3PXQ and seconded by AC3KI. The motion passed without objection. The meeting was adjourned at 7:59 PM.

Respectfully Submitted,

Don Stewart – WA3HGW
Secretary; Skyview Radio Society, Inc.

Analyze This

de Brian - KC3VNB

As a ham, you probably have a decent understanding of the radio modulation techniques provided by your equipment. Many modern rigs even provide a waterfall/spectrum display where you can get some visual sense of the signals.

In this article, we'll go further and look at several signals, many of which you probably take for granted, by considering the detail (and beauty) that lies within. The star of the show is a Tiny SA Ultra. SA stands for spectrum analyzer, and much like your waterfall display, shows signals levels in the frequency domain. It has some nice measurement capabilities that will let us dig deeper into some of the sample spectra, and provide some nice validation to theory you may recall from your ham or other studies. Of course, this relatively inexpensive device is no match for a lab grade spectrum analyzer, but used carefully, it can still provide decent insights.

Let us start with a real basic signal that most of you should be familiar with – 10 MHz WWV, using AM to send time and frequency standard information (Figure 1). You should immediately recognize the 10 MHz carrier, along with the lower and upper sidebands that result from the various tones sent in repeating cycles during the minutes of each hour. Note that the minimum resolution bandwidth (RBW) of the Tiny SA is 200 Hz – that is, the smallest window that is used to obtain the power level of the received signal. The actual center carrier at 10 MHz is **extremely** narrow, but shows as somewhat broad because of that minimum RBW limitation. A better spectrum analyzer would be able to show that carrier as very narrow, and you would see more detail in the sidebands.

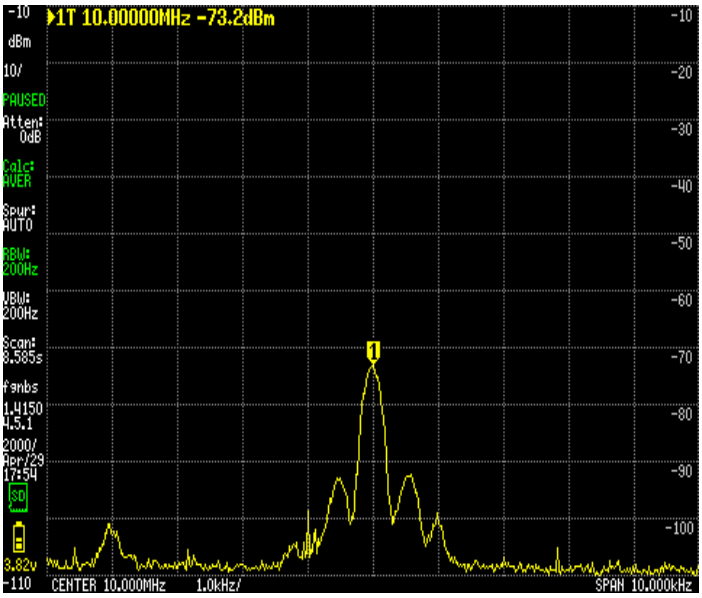


Figure 1: 10 MHz WWV

How about an FM signal? Figure 2 shows a commercial FM broadcast signal (102.5 MHz, WDVE in Pittsburgh, PA). The center frequency is showing slightly off, due to the limited horizontal frequency resolution of just 401 points, along with any internal clock errors.

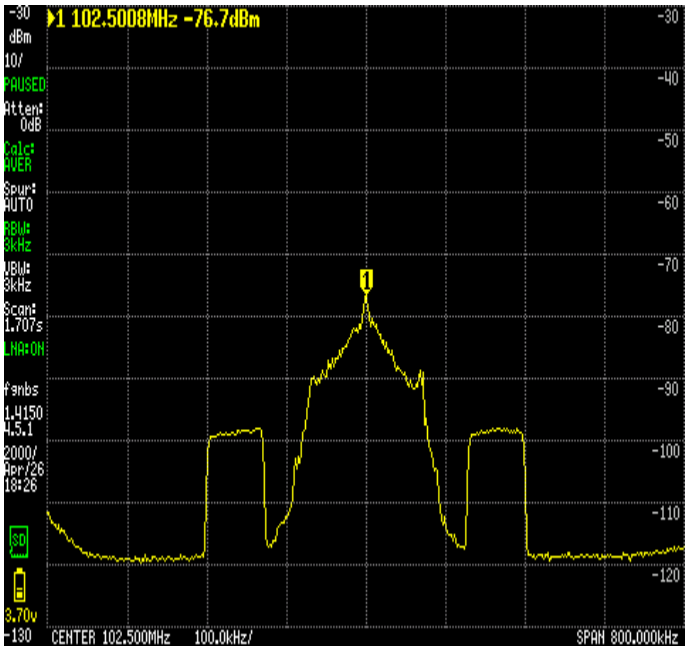


Figure 2: Commercial FM Spectrum

The two rectangular side lobes are the so-called HD Radio (digital channels) sent by that station. Also, we can roughly infer the FM deviation by noticing the corners in the center analog body of the signal, 75 kHz on either side of center. Overall bandwidth for the signal is 400 kHz. In the US, commercial FM stations are on odd 100 kHz frequencies (i.e. they end in .1 MHz, .3 MHz, etc.) Since they take up 400 kHz, there is always at least one "empty" frequency between stations in any given metropolitan market.

Figure 3, is another FM signal, this time the National Weather Service (NWS) Pittsburgh station, operating at 162.55 MHz. No digital sidelobes – just plain old analog. By inspection, the FM deviation appears to be approximately 8 kHz (note the two roughly symmetric spikes on either side of the signal).

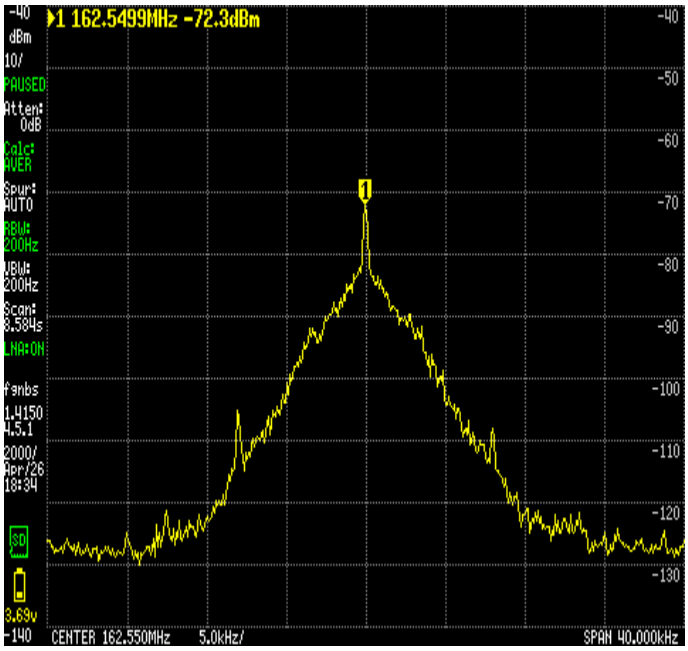


Figure 3: NWS Pittsburgh Station

Speaking of weather, Figure 4 is a capture of a semi-daily radiosonde transmission. No, it is not the "Bat Signal" – the center spike gives the carrier frequency, 401 MHz, and the side spikes again let us infer this is a type of FM. In this case, Frequency Shift Keying (FSK) with the shift used as +/- 2.2 kHz or so.

Note the very sharp drop-off on the sidebands – this conserves bandwidth and results from a gaussian filter on the data being sent. If you were to listen to that signal, you would just hear a brief chirp once per second. In that chirp, the FSK signal is generated by modulating a gaussian filtered binary pulse train, representing the radiosonde data (temperature, humidity, pressure, position, etc.) Since that signal is so brief, it was necessary to average the signal over a long time to get clear "picture" of it.

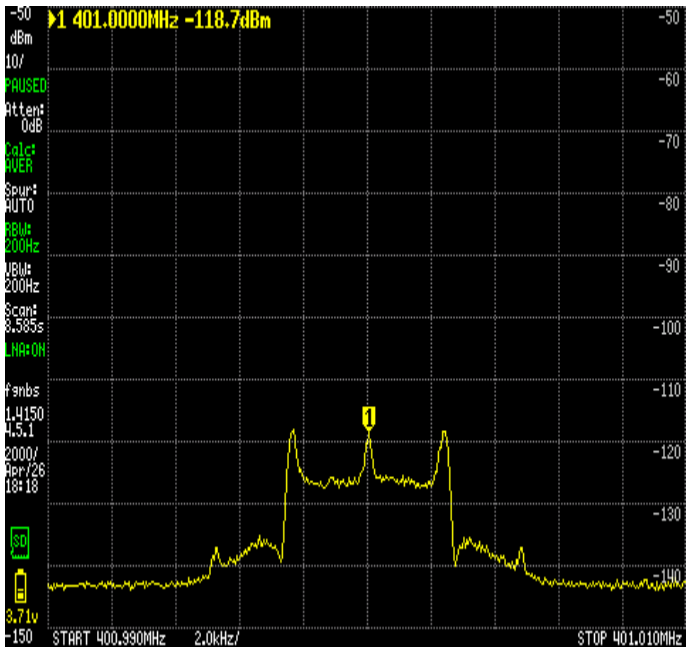


Figure 4: Weather Balloon Radiosonde Signal

Ever wonder what a digital TV signal looks like? Figure 5 is an example. Here, we can readily discern the 6 MHz bandwidth, and the Advanced Television Systems Committee (ATSC) pilot signal. That signal is specified as being approximately 309 kHz from the lower band edge of the signal – again, the Tiny SA is showing a value close to that, limited by the 401 sample points.

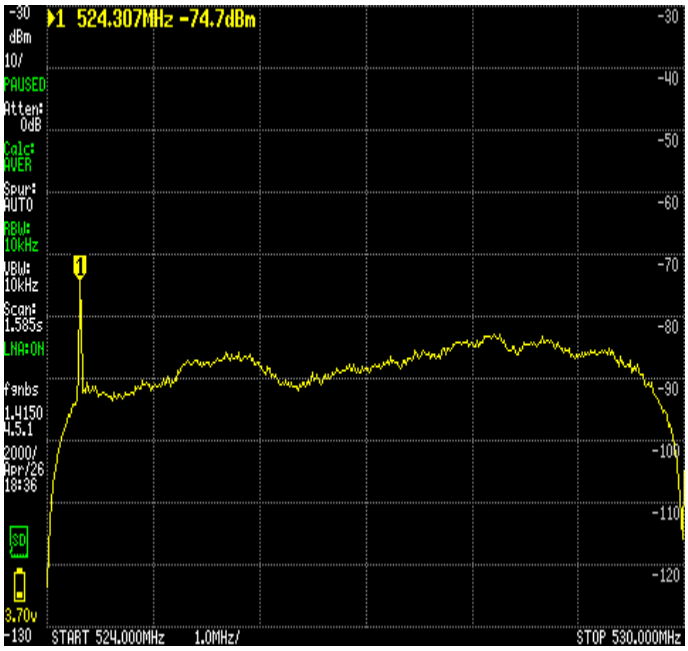


Figure 5: Commercial Digital TV Signal

Now we will look at some standard signals you might encounter in an electronics lab. First up is just a simple sine wave, in Figure 6. Of course, it is trivial see the frequency, in this case 10 MHz (small discrepancy as discussed previously). What is of more interest is what we **do not see**. There are no other spurs visible, which would indicate harmonic distortion of the signal. The fact that nothing is seen even 60 dB down from the fundamental shows us that this sine wave is quite pure.

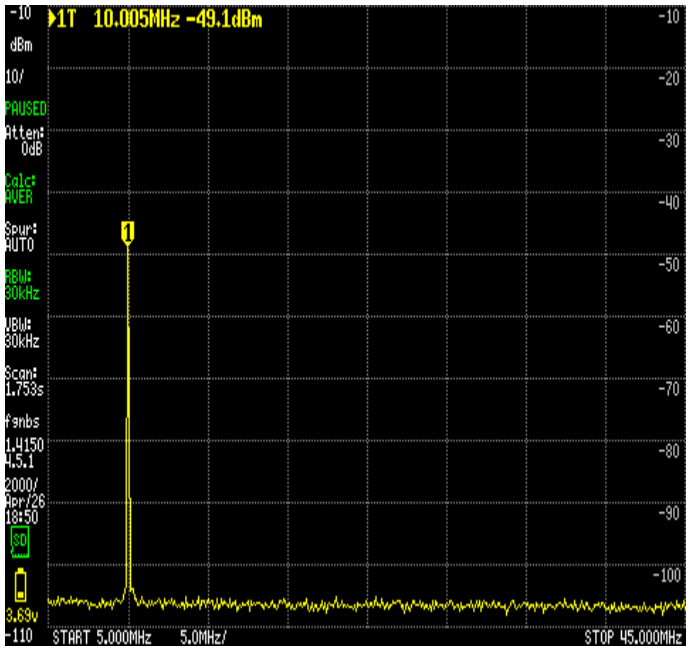


Figure 6: Sine Wave

Figure 7 shows us the spectrum of a square wave.

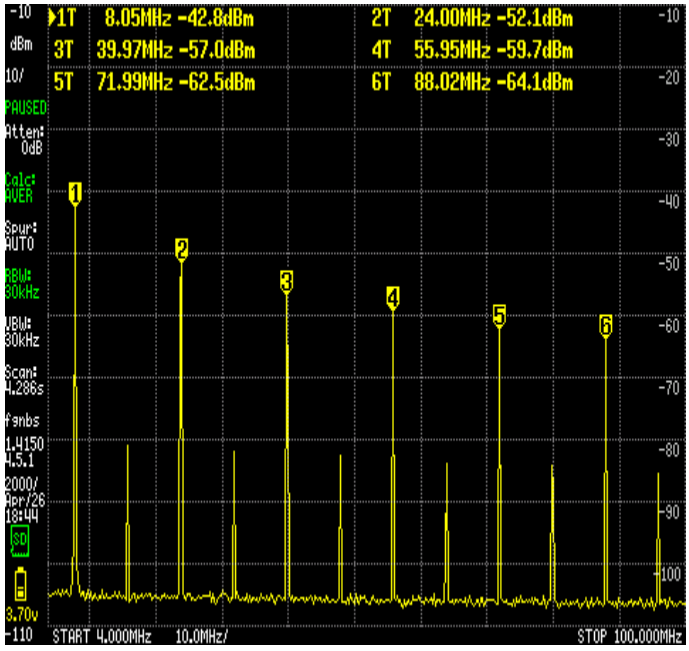


Figure 7: Square Wave

If you recall some of your ham training, or if you recall Fourier series analysis, you would expect to see only odd harmonics. Since there are notable even harmonics, the signal is not a perfect square wave. In real life, no signal is ever a perfect square wave – there is always some fi-

nite rise time, some over/under shoot, etc. Those imperfections manifest as the even harmonics and discrepancies in the values expected for the odd harmonics. With that said, we can compare the expected odd harmonic amplitudes to the observed values. Showing the derivation of the Fourier constants is well beyond the scope of this article, but if anyone would like an explanation of how to do so, please feel free to contact me.

The voltage ratio of harmonics goes as 1/n; that is, the voltage amplitude of the 3rd harmonic is 1/3 of the fundamental, the 5th harmonic is 1/5 of the fundamental, and so on. Since the Tiny SA is showing power (not voltage) in dB, we need to convert our theoretical values to dB power. 1/3 in terms of voltage, becomes $(1/3)^2$, or 1/9 in terms of power. 10 $\log_{10}(1/9)$ is -9.5 dB. The 5th harmonic is -14 dB down from the fundamental, the 7th is -17 dB down, etc. Comparing the marker values, and treating the fundamental as a zero reference, shows that we are quite close to theory.

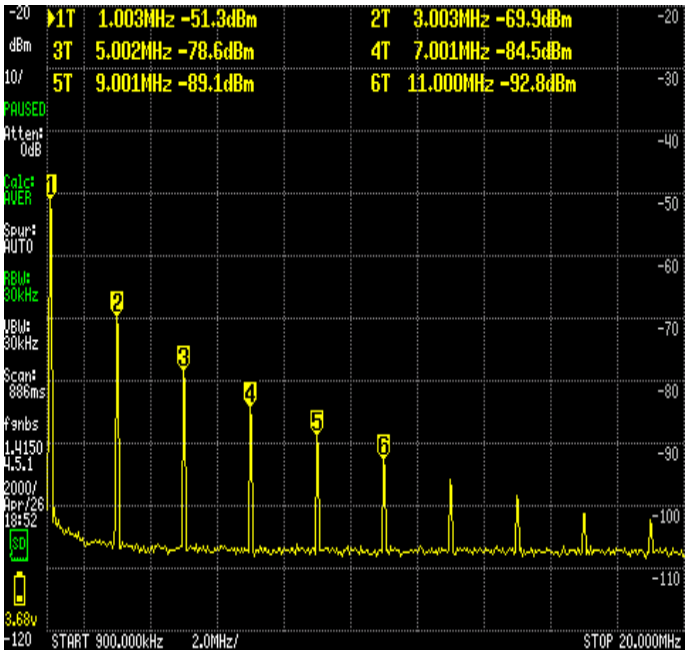


Figure 8: Symmetric Triangle Wave

Figure 8 shows a triangle wave (symmetric rise and fall), while Figure 9 shows a sawtooth. You can check to see how closely the levels of the harmonics match theory – I'll leave that to the reader. However, it is worth pointing out that the triangle wave has only odd harmonics, while the sawtooth has even and odd.

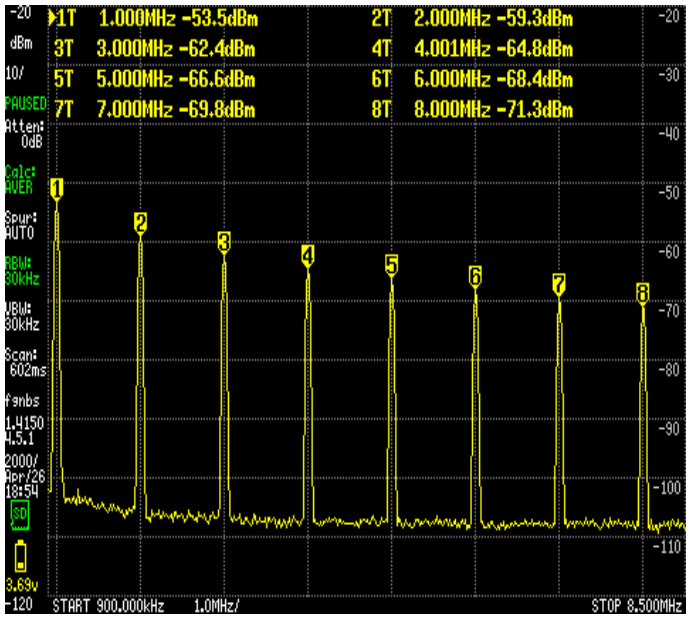


Figure 9: Sawtooth Wave

Figure 10 shows a classic large carrier, double sideband signal, normally just called AM. The sidebands are due to the simple sine wave that is modulating the carrier. The separation from the carrier gives the frequency of the modulating signal (in this case 10 kHz), and the relative heights allow us to figure out the modulation depth (in this case 90%, which will calculate very close to a 100% modulation, a roughly 6 dB difference from the fundamental).

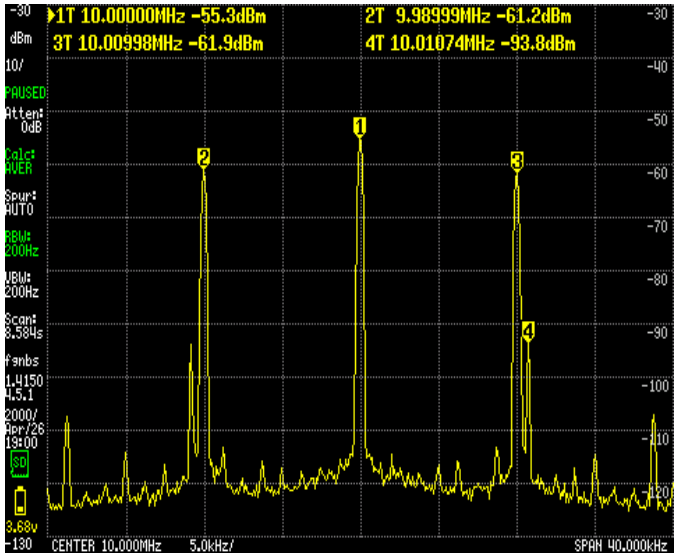


Figure 10: Simple AM Signal (10 MHz Carrier, 90% Modulated by a 10 kHz Sine Wave)

Figure 11 is an FM signal with a sawtooth (or ramp) modulation – an interesting picture due to the nature of the Bessel functions that make up an FM spectrum.

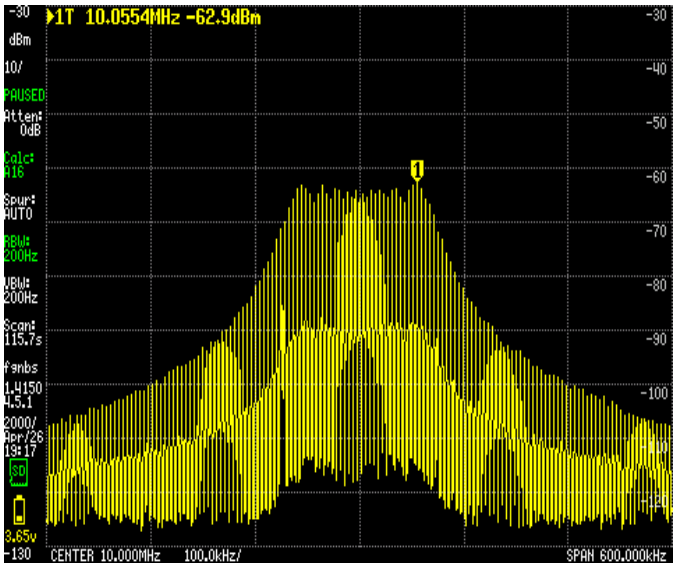


Figure 11: Ramp FM Signal (3970 Hz Ramp, with 75 kHz Frequency Deviation)

In Figure 12, we have the spectrum of a 2.4 GHz Wi-Fi signal, collected while an internet speed test was being performed. That caused the access point to maximize the use of the channel. If you were to look up the Wi-Fi channel frequencies, you would find that channel 10 was being used, along with a 20 MHz channel width. Just look at the markers to help you sort that out. You may notice other Wi-Fi channels – those are from my neighbors' networks.

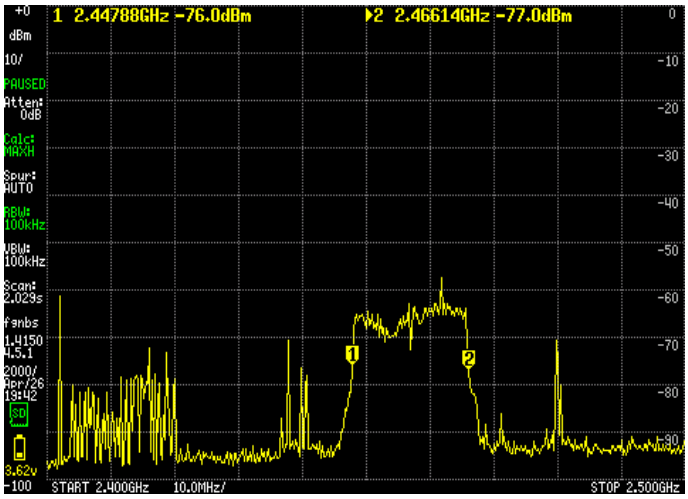


Figure 12: Wi-Fi 2.4 GHz Spectrum

We could go on and on with additional spectra. Someone is always figuring out a new and clever way to modulate baseband signals to minimize bandwidth, improve transmission rates, decrease error rates, etc.

As mentioned previously, a Tiny SA cannot possibly compete with a fully featured lab grade spectrum analyzer, in terms of both performance and range of modulation types. With that said, there is much you can do with this relatively inexpensive device to let you monitor the world of RF signals around you. You can also use an SDR dongle with appropriate software to view spectra on a PC.

https://www.tinysa.org/wiki/

Hopefully, this modest introduction has generated some interest for you to go out and explore.

As always, please do not hesitate to contact me at kc3vnb@gmail.com for questions or comments.

Brian - KC3VNB

It's Always Somethin'

de Cooky - WC3O

At the clubhouse we've taken lightning hits in the past. We once took a really large hit that caused a lot of damage. Since then we've greatly increased our attention to grounding and bonding. There was a long period of us not taking any damage, assuming we had taken some hits during that time period.

Recently, however, we've taken a couple of damaging hits. We never really know how-all it got in, but it got in. I think both of the incidents got in through antenna rotor control lines. One of them somehow got in through the 40 meter beam rotor control line despite having a well grounded lightning protector on the line. The first hit I think it also got in through the COMCAST cable internet line because it took out the internet modem.

Back to the rotor controllers

In all three of the HF station rotor controllers we have an aftermarket board installed that allows us to control the rotors via the computers. When the system is working, when we are contesting we can enter a callsign of a station to be worked. N1MM knows where we are and it knows the beam heading of the station to be worked, let's say 15 degrees. N1MM also knows what frequency you are on. So let's say you're on 40 meters. Hit Ctrl+J and the 40 beam will automatically move to 15 degrees!

There are two socketed chips in the aftermarket controller that are prone to lightning hits. A MAX232 chip and the main processor chip. All three of the rotor controller serial cables go to a unit that gives us four virtual serial ports using one USB cable. It's mounted on the wall close to the rotor control boxes.

So this is how lightning works:

The lightning got into one rotor control box, goes through the aftermarket board, through the RS232 cable, and on to the USB box, goes through that box and goes back through the other rotor control circuit boards on the remaining connected rotor control boxes. In the end you lose three MAX232 chips, 3 processors, AND the serial to USB box! This happened twice recently and this is getting pretty old.

Along with working on further improving our grounding, I installed RS232 opto-isolators between each rotor RS232 cable and the COM port to USB box, Hopefully in the future, this will isolate the damage to only one rotor control box rather than traveling to the remaining connected units.

It's best if the lightning never even makes it that far.

There's more work to be done, but these events, along with repeater problems, took time that I was hoping to use to do some much needed tree work at the clubhouse. We'll get there...

Lighting is bad

Cooky - WC3O
Skyview Radio Officer

Our Current Old Timers de Jody- K3JZD

We talk about our Founders. The ones who had the nerve to invest what was a lot of money back in 1960 (64 years ago) in the Skyview property. Then built pavilions, built a clubhouse, and raised antennas. We have been running an annual on-the-air 'Skyview Founders Day' event to honor our Founders.

We also talk about our Old Timers. Some of our Old Timers may have also been Founders, or perhaps joined shortly thereafter. However, many of our Old Timers have either moved to a warmer climate, faded away, or have become Silent Keys.

I think that we need some "Current Old Timers" to respect. I asked Dave - N3TIN for his suggestions. Dave referred to his photo database and did some additional digging to come up with eleven candidates. These eleven candidates joined Skyview some time before 1995. So, each candidate listed here has been a Skyview member for at least 30 years.

I am proposing that we now recognize these eleven Pre-1995 Members as "Our Current Old Timers". (The exact join dates for all are not known, so there is no particular order here).

KB3HXP	Bob Bossio
WA3LCY	Paul Rykaceski
K3FKI	Jerry Silvestein
K3VRU	Jim Jackson
K3ZAU	Bob Chufo
W3RRK	Mark Rossi
WA3KFS	John Italiano
K3MJ	Rich Gubanich
K3FH	Mike Furfari
N3TIN	Dave Dailey
N3WAV	Bob Livrone

Sorry, no free "Current Old Timer" Tee-Shirts are available.

If you belong on this list of Pre-1995 members and were missed, notify me and I will get you added.

Jody – K3JZD

Skyview VE Sessions

Skyview provides VE Testing at the Skyview Clubhouse each month (Details provided later, near the end of this newsletter)

Here are some of the recent success stories

April 2024

Tom Forsyth KC3ZAU passed the Technician exam

May 2024

Bill Straughn KC3ZDR passed the Technician exam

de Bill - N3WMC

Something Completely Different

de Cooky - WC3O

And now for something completely different

PART 1:

While there are obvious advantages to having an amateur radio club with a clubhouse and grounds, there is also NO shortage of work and upkeep that needs to be performed.

When we finished mowing the grass last year, our lawn tractor was working great. This spring I preemptively started and ran the mower before the grass started growing to be sure we were good-to-go for this year. The engine started quickly and ran great. We're good to go!

Well, yes and no

When it was finally time to cut the grass, I fired the old girl up. She started quickly but something didn't feel right? What the... I engaged the blades and started to cut grass. The engine was lacking power and wanted to stall. Great. What now?

Now, fixing engines is what I do for a living. This SHOULD be easy? I was quite surprised at how much I have become dependent on scan data. Without being able to hook up a scanner and see what was going on, I was left staring at the sick engine rather helplessly? The engine is fuel injected, which I am well familiar with. But what is it doing? What is it not doing?

I had to reach back in my mind to my days before scan data was king. Back to basics. It's a two cylinder Kawasaki engine. With the engine idling, I removed one spark plug wire to see what would happen. The engine immediately stalled. Re-connected the wire and re-started the engine. I removed the other spark plug wire, and it had NO effect. Now we're getting somewhere.

The engine does not use a magneto for spark. It uses two automotive type ignition coils, one for each cylinder. I stuck a screwdriver in the contact of the wire and held it close to the engine (Ground) with it running. There was no spark. OK, now I'm fairly sure we do not have a spark plug problem.

The coil has two primary wires going to it. One is +12 volts and the other is a trigger, likely from an ignition module. Again, I don't have a service manual for this machine so I'm just winging it.

With a 12 volt test light I probed one of the two primary wires and the light lit. So we have power. I probed the other primary wire with my test light, with the clip that is normally hooked to ground, hooked the battery positive. The light flashed. So we have good trigger from the ignition module.

So what do we have? A bad ignition coil! I removed the coil and found that it is made by DENSO.

I looked at local John Deere dealers to buy another, but there doesn't appear to be anything close by. The grass is high and I need to cut it soon.

After some Google work I found the correct genuine DENSO coil on Amazon.

I ordered two of them and had them in my hands in short order. I installed one new coil to replace the bad one - And once again the old girl was running well and firing on both cylinders. I'll replace the remaining coil as I have time and keep the old one as a spare.

As many of you know, I am a stickler for OE parts. Over 40 years of experience will teach you that. We have spares of many things at the club, but we have no back-up if the mower craps out.

The grass just doesn't care. It grows no matter what. We really need the mowers to run. As of this writing I have mowed the grass and this mower performed great.

Amen.

PART 2:

I'm an old Lawn Boy mower freak. I love the old Lawn Boys back when Outboard Marine Corporation (OMC) made them. Toro eventually bought Lawn Boy and immediately got rid of every good idea that Lawn Boy ever had. The Toro Lawn Boys were junk.

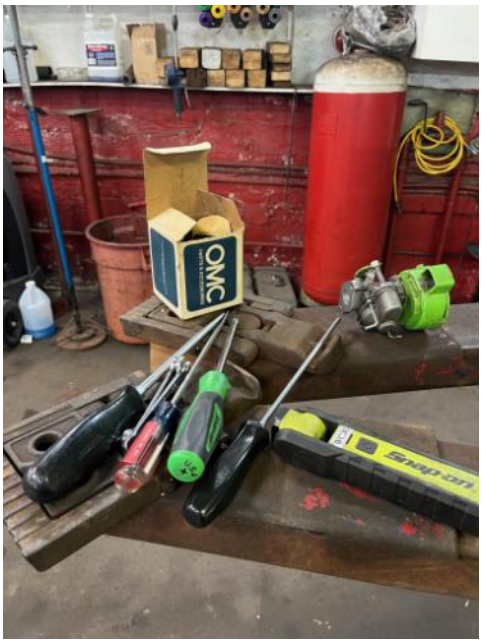
Likely over 20 years ago, I bought an old Lawn Boy "Brick Top" mower at a yard sale near my house for $10.00. That old mower had been running great at the clubhouse ever since, until recently...

The advantage of these old mowers is that they weigh very little. The housing is magnesium and the mower engine is very small, light, yet powerful. It's a 2 cycle engine. ALWAYS use genuine Lawn Boy oil. You will REALLY come to appreciate that light weight when you mow the hump down by the road and all of the other nooks and crannies that need cut at the clubhouse. That damn mower just runs, until recently...

As it turns out, there is a small rod that comes down from the governor and operates the throttle lever on the carburetor. From all these years of service, the round hole in the throttle lever got worn into an oval. The end of the rod also was badly worn. The rod would get jammed in the throttle lever and the engine would get stuck on low speed. Not good

So how to fix this? God bless ebay.

I found a new old stock (NOS) rod and ordered it. I filled the oval hole in the carburetor lever with JB Weld. After setting, I drilled a new hole in the JB Weld.



Well, that didn't work... The JB Weld couldn't get a good enough grip and it fell out.

Again, God bless ebay...

I found a new NOS carburetor! I installed the new carb and rod and fired that mother up! It kept stalling...

Oh for the love of mike!

At the shop we have a smoke machine. What does a smoke machine do??? Well, it makes smoke.

What did you think it did? I blow smoke back through the carb to check for vacuum leaks. Sure as shinola it was leaking at the base gasket. I didn't replace this gasket, but I found the flanges were not quite completely flat. I filed the surfaces until they were flat. I re-installed the carb and now she runs!

Well, yes and no...

She runs alright. The RPMs should be around 3400, the engine was running at around 4000!

Unfortunately, on this design mower, there is no way to easily adjust this speed. I removed the flywheel and bent the arm for that little rod. The mower now runs at @ 3400 RPM. Actually, I think I'm going to bump that speed up a tad. I'll have to use it for a while and see.

Can anything else go wrong! (Don't answer that)

And the grass keeps growing…

de Cooky - WC3O

Skyview Radio Officer
Skyview Master Mechanic
Skyview Grass Management

Skyview Sunspots

de Joe - KC3PXQ

ED - Ordinarily, we would not share our secret Skyview Swap & Shop Kitchen Sunspot recipe. But Joe (aka Cousin Joe) - KC3PXQ has chosen to share his so folks can enjoy Skyview Sunspots throughout the year

Cousin Joe's Shrimp Scampi Recipe

- 3 sticks of butter per pound of shrimp
- 8 oz jar of minced garlic
- Lemon juice
- Chopped parsley
- Chardonnay white wine

Melt butter in large frying pan

Add Shrimp

Add small amount of garlic

Fold shrimp as they heat

Add chopped parsley about 3/4 of the way through

Sample, add more garlic if required to suit taste

Add couple tablespoons of Chardonnay (optional)

Serve whenever fully heated

de Cousin Joe - KC3PXQ

ED - Obviously, as with anything that is "prepared to taste", one has to experiment with quantities and timing. Cousin Joe shared a lot about what he looks for whenever he is sampling whenever he did his demonstration at the clubhouse . Guess you had to be there !!

Up The Creek Without a Paddle

de Charles - KC3TTK

Not sure if you knew this but EVERY Monday night on 146.64 there is CW practice for anyone who wants to practice code with other people. I share this with you because I am not sure if it is ever mentioned around the club. (Just Kidding Cooky) Nothing too fancy but a good group of operators to ask some questions to and get some feedback on, People you know - club people. Heck, I heard you don't even have to be a member of Skyview to participate.

I too decided to try my hand at CW. Even though it isn't required for a license anymore, I like to learn new thing to keep the grey matter sharp. I also heard that the CW operators get their choice of groupies at hamvention. There are many resources to learn CW. Everyone has what works for them. What works best for me is brute force. I listened to CW recording and transcribe them then check my work. The ARRL has their CW practice listed going back several years.

I worked my way through 3, 5 and 7.5 WPM practice decoding with accuracy in the mid 90 percents. Now it was time to start transmitting. After losing the raffle for the Begali (which was a long shot at best) it was time to start shopping for a paddle to practice my transmitting. After some searching, I found two extremes. $60 for garbage or $200 for a low end Begali or similar. I am sure there are more options, however like everything else I have been enjoying with this hobby I wanted to see what I could do with what I had on hand.

This had me thinking, what really is a paddle? A switch or two, some wire and a block of material. I think that is something I could handle building here in my shop. I searched online for home made paddles and found some very impressive designs and some odd designs.

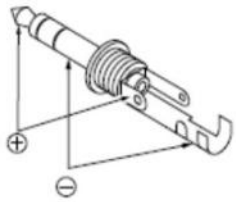
Starting with the switches that make the contact, in my bin I found a couple of "cherry" limit switches with rollers on them. I think they came out of an old microwave, maybe a pinball machine? Who knows. What I do know is they were already on hand.

Next there was the wiring. The ICOM has a convenient ¼ inch input jack to wire in a paddle.

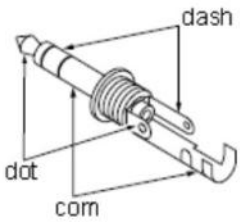
KEY jack

Connects to a CW straight key or a paddle:
6.35 mm (¼ in) (d)

When connecting a CW straight key.

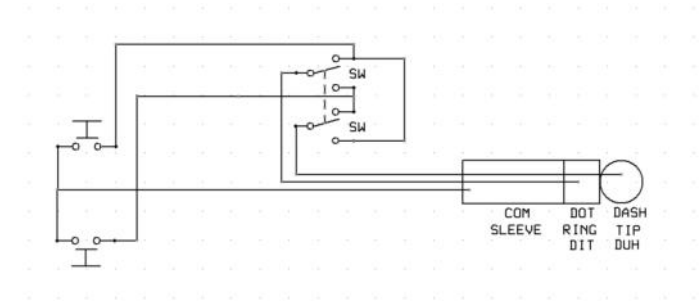


When connecting a CW paddle and using the internal electronic keyer.

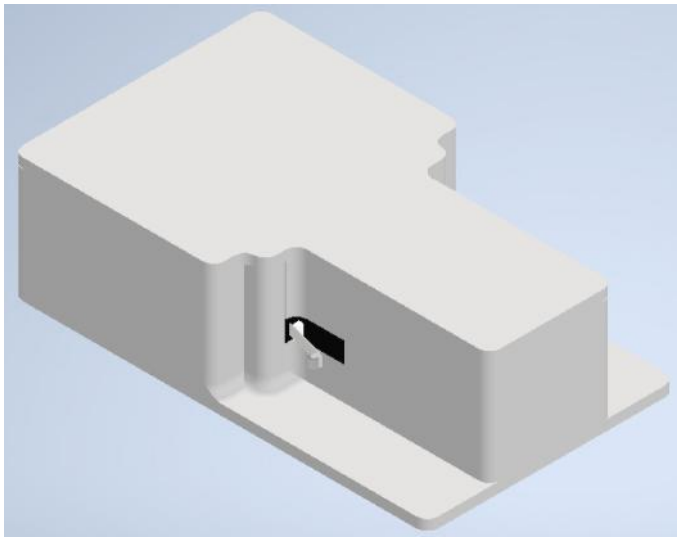


Now how to wire the limit switches to the radio. I decided to put a double pole double throw (DPDT) switch into the paddle to change which switch makes the "dit" and which switch makes the "duh". This would give me the opportunity to change hands and see what worked better for me as I learned. I was not sure if this was customary or not with a paddle, but customs be damned.

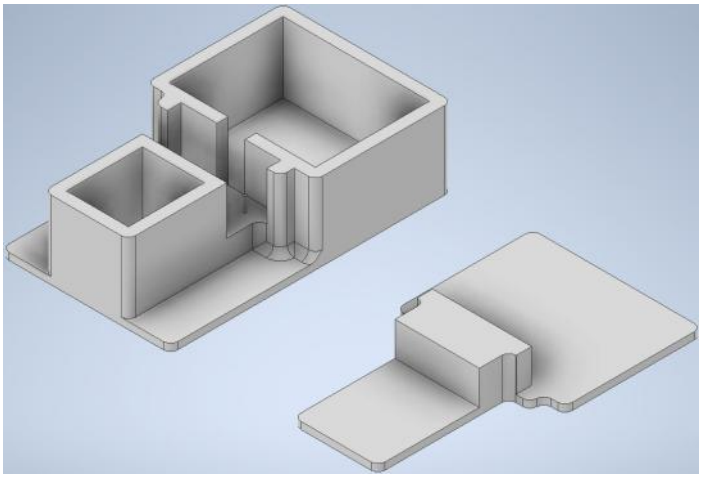
Here is the schematic I came up with to incorporate everything.



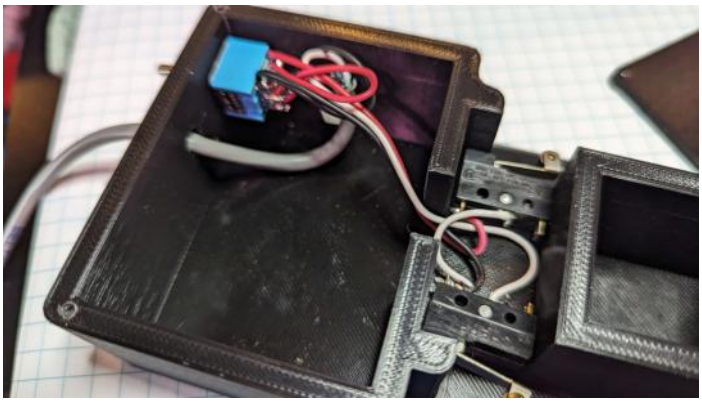
The next question was what to put these parts into. I decided to sketch up a quick box that would hold everything and be a reasonably usable shape. Off I went to my 'Autodesk Inventor' design software! To create the shape of the paddle.



Now that the overall shape was designed, it is time to break it apart into pieces that can be printed and assembled.

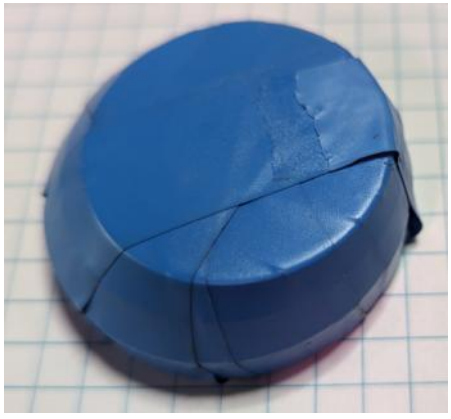


We have the parts, we have the case, now it's time for assembly. Solder the wires to the limit switches and the DPDT switch and pull the wires through the case.

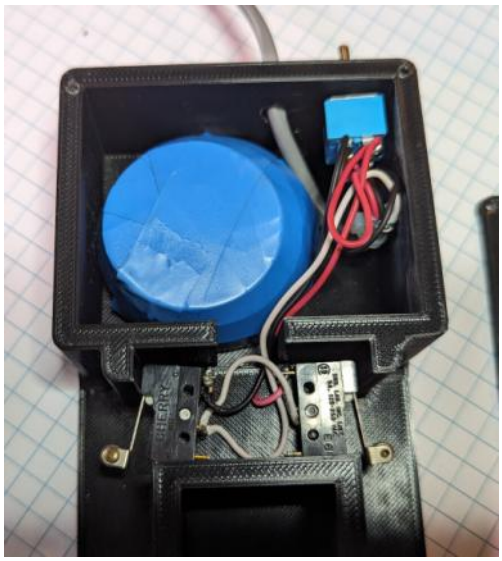


At this point it would be noticeable that the weight of the paddle is extremely light. To get the paddle to not slide all over the table, some weight will need to be added to the cavity in the paddle. To accomplish this, I used a stack of large fender washers. You could use anything you had laying around.

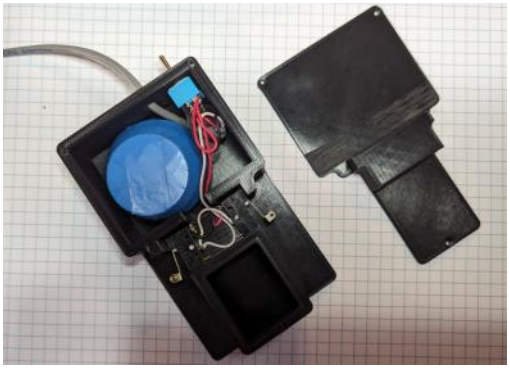
Fishing weights, Pennies, Grandmas dentures. If it fits it can be used to weigh it down. I wrapped the washers in electrical tape to prevent them from contacting the terminals on the switch.



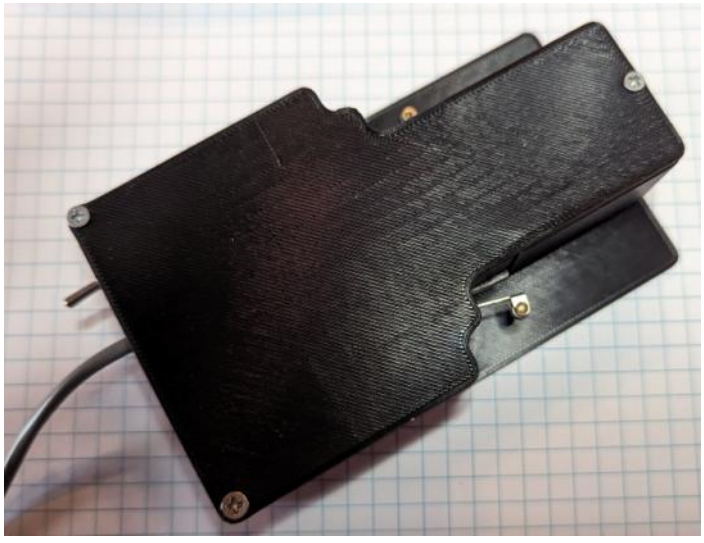
Stuff the weights into the case.



Now the lid is ready to install in onto the bottom of the case.



This is what the finished product looks like.



Now that the paddle is complete, I know you are all wanting to know, how does it work? Well, the answer is pretty good. Though I had nothing to compare it to. I would have to say so far so good. I have been practicing and am comfortable at about 15 words per minute both transmit and receive. Not quite the 20 WPM required for a pre-2007 Extra, but I will be there soon enough.

If I make another one there are a few things I would do differently. When I made this one I was just looking for something to get on the air with and learn CW. I would say that making it more ergonomical would be first on the list. I would also make the pocket for the limit switches a little tighter. But live and learn right? Other than that, it does the job.

Parts List

2x Limit Switch	1x DPDT Switch
5 Feet 3C 18 AWG wire	1x ¼" Stereo Jack
1x 3d printed paddle case	3x screws

Assortment of washers for weight

If anyone want to try to build one of these, let me know and I will share the files or print you a case if you don't have access to a printer.

And remember, If I can do it, you can do it. If you have ever had an interest in learning CW, get on it.

"The best time to plant a tree is 20 years ago, the second-best time is today" -Chinese Proverb.

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de Charles KC3TTK

BUILDING YOUR SHACK - Part 3

de Bill - NY9H

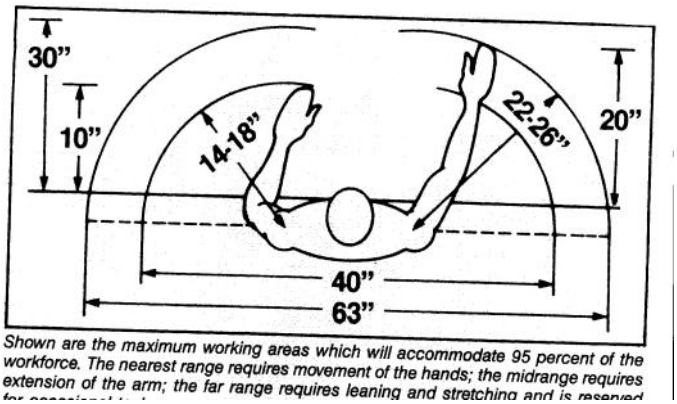
(OR HOW NOT TO BE RELEGATED TO THE BASEMENT)

My wife had a good idea....redo the Den, with a 'proper' cabinet for my radios. Tuck it ALL away.

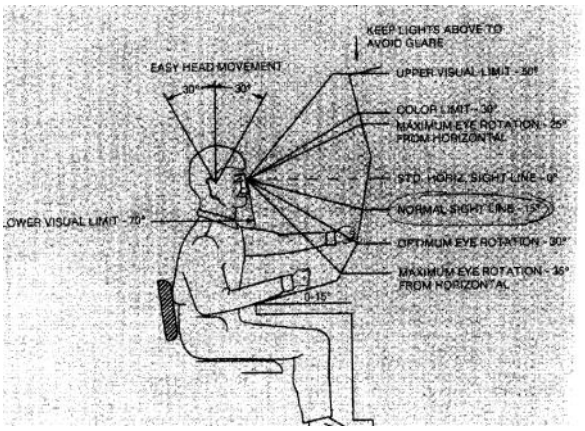
It had to be her idea, since this is when the "it only takes some 2x4s and plywood & $15" goes away.

This was in the late 70s, business was great, so spending some money was ok.

I used several resources to mix with my own ideas as to what makes sense. I looked at hundreds of ham shacks in QST finding my preferences. I settled on going vertical to the ceiling, with an internal cabinet width of about 42 inches. Notice the 'reach' on the diagram on the bottom left. But NOT using 19" metal racks, but rather wood partitions.



Shown are the maximum working areas which will accommodate 95 percent of the workforce. The nearest range requires movement of the hands; the midrange requires extension of the arm; the far range requires leaning and stretching and is reserved



Next we will see the results of piles of drawings, drafts and quotes.

After months of drawing and measuring actual radios including knob depth and rear cable exiting... It happens.

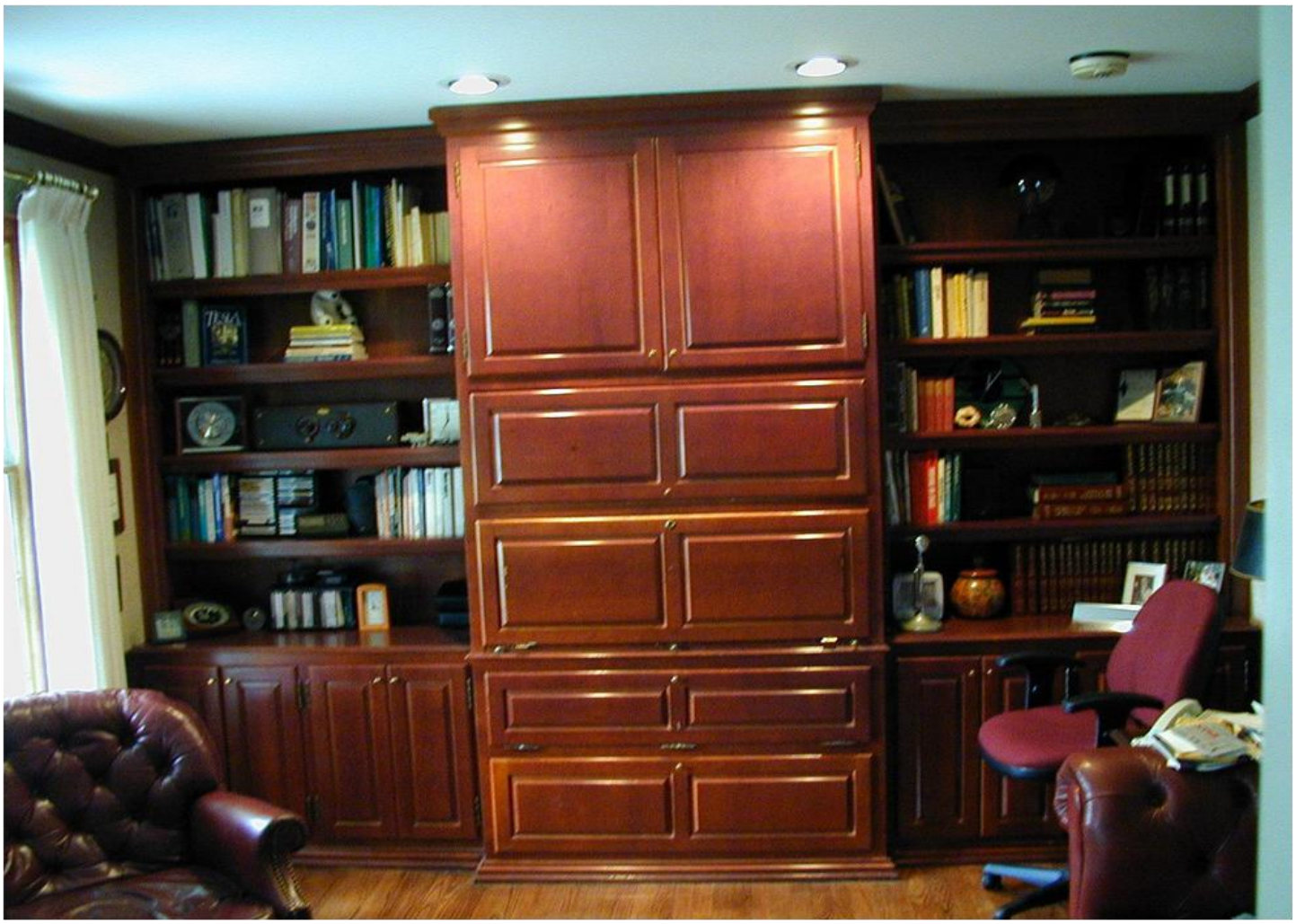
I designed the cabinet, ultimately using an internal iron angle to make certain there would be no shelf sagging. Even the book shelves had large under trim to support the large width. We did the walls in grasscloth which looks nice, and you can use map tacks, even nails to hold stuff without leaving any marks. The molding at the ceiling finished off the wall. Again I cease discussing the "inexpensive" component of my solution. The entire wall project was assigned to a cabinet maker. If you want to play on the main floor it has to 'blend' in with your furniture. It was new also !

Why hams spend many hundreds, if not thousands on radios, yet nothing to provide a comfortable, attractive station.

The design must provide my home office space with a computer and CRT display, causing certain dimensions. Computer chassis require over 20 inches depth... then CRTs about the same. So the 'center' height must be over 16" to accommodate the 15" CRT screen. Don’t forget the reasonably adjacent space for the laser printer.

The top doors swing open as one would imagine. The next space designated levels L3 & L4 have a flip up door.

This was one of the two trickier parts of the cabinet, as it pulls up and slides into the cabinet, tucking away nicely, but eating up some valuable real estate. Then the main work surface L2 , which the 'master craftsmen" did OK.



When the work surface tilts out and down it must have a supporting surface for the weight of the wood itself as well as your arms and whatever you set on it . My contractor, while a certified cabinet guy, used three horizontally laid slide-out boards for support. Nothing busted in 30 years of heavy use. Always such surface supports are positioned vertically for strength, but in this configuration he could not figure out how to not interfere with the next lower opening, which was in the lower cabinet of the two sections Below the main attraction is L1 with a flip out & down door, which housed 110 & 200v outlets, switching & fuses, soldering station and a serial hub. And stuff I needed to hide away, including openings to the vertical shaft to the basement.

Aside from the obvious down lighting, positioned to highlight the cabinet's finish, there are other cool ideas. I had to 'hide' a laser printer, lateral file cabinet, as well as a desktop computer in a bottom cabinet into cabinet depth that did not appear to be 'sticking out'. The solution was to make the bottom cabinet deep enough to accommodate the re-quirements, and then slide the bookshelves forward till the shelf depth visuals appeared correct. Don't forget we need to provide cooling for the laser printer and the computer.

Here is the HP Laser & the lateral file cabinet .

Providing cooling for the CPU was the first of many devices needing special attention to save the electronics from overheating and shutdown.

Here it is, open for business

The antenna patch panel above the amp allows total flexibility with different antennas to various radios. MFJ 2KW Tuner is on left of antenna connections.

Only one CRT monitor was used for business and ham radio logging programs.

Two vertical 3x7"channels ran behind the cabinet and in front of the old wall providing access ports at the necessary levels for connectivity. Antenna outputs went directly out the back into the garage. Imagine all the coax, 12vdc & 110 lines running though the cabinet.

The 70 lb power supply (220vac) for the Titan Power amp was mounted in a garage cabinet directly behind the wall. Also my ASTRON 13.8 VDC supply is co-located in that garage cabinet.

Bill – NY9H

Dayton: Fortune Favors the Prepared

de Chris - AC3Q

Introduction

Ah, Dayton! Six of the most beautiful letters in the English language. As many of you already know, Dayton (Ohio) is home to one of the world's most prestigious amateur radio gatherings, attracting hams from all over the globe. Every May, fellow radio enthusiasts like your self trek across state lines, neighboring borders, and distant seas to take part in the yearly bacchanalia that is "Hamvention." It's a beautiful thing. Rarely does one get to experience such a concentration of radio related gadgetry in one place.

If you have never been, you owe it to yourself to attend at least once in your lifetime. My experience may have only lasted a few days, but the multitude of memories I acquired will be treasured forever. The following article is a chrono log of how it all went down. Names were changed to protect the innocent, and events were recounted to the best of my recollection. Here we go!

In the Beginning…

If you haven't noticed by now, I'm attempting to channel my inner Jean Shepherd (K2ORS). While Jean is no longer with us, he did enjoy going to Hamvention and was even invited as a guest speaker on a multitude of occasions. If you're not familiar with Jean, you may remember his articles. They would usually begin with stories about his experiences on the air, before eventually giving way to him waxing nostalgic about tradition and his love of the hobby! I hope to do the same here.

Moving along, my story began like many epic tales - with a monetary leap of faith! Hotel reservations were first on my list of to-do's and needed to be done in concert with fellow hams who knew the area. I would need a room for multiple days and didn't have a lot of money to waste, so I sought the advice of fellow hams "Bookie" and "Small Guy" to assist in finding affordable half-decent lodging.

The Clarion Inn (Choice Hotels) in Fairborn, OH was their recommendation and reservations were to be done early, preferably closest to when the official event dates get released. They also warned that rooms tend to fill up quickly and finding a location close to the fairgrounds becomes increasingly more difficult as time passes. All this turned out to be true, as a quick re-check closer to the event confirmed room availability had dried up and prices had skyrocketed. One bullet dodged – onto the next!

Tickets were my next on the list, and accomplished easily enough through the online portal of the official website. Making your purchase in advance will earn you a small discount. However, if you decide to wait, entrance tickets are usually still available at the main gate once Hamvention officially opens.

The Battlefield

Ok, here's the layout. Hamvention is held on Green County Fairgrounds outside Xenia, OH. There's a large asphalt walking area with scattered out-buildings which house the larger event sponsors. This is everything from DX Engineering, ICOM, and Begali Keys to Diamond Antenna, AMSAT, and Ham Radio Outlet to name a few. If it's raining, this is where you want to spend your time. It's mostly dry, and the people are very accommodating to soaking wet hams. I want to say there are 3 main buildings, but there may be actually be four. Again, this is going off of what I remember.

Outside, in the main concourse are your food eateries. Pulled pork, ribs, doughnuts, coffee, bar-b-que, ice cream, hamburgers, etc. – it's all there. Picnic tables are setup throughout the walking area and there are multiple places to sit and enjoy your lunch. Be warned though, if it's hot, the asphalt heats up and there are only a few places to find shade.

Further into the fairgrounds, you'll find the racing tracking. This is where the flea market is setup. It's mostly dirt and compacted gravel surrounding a grass field, but it can get pretty muddy after a rainstorm.

Parking and navigating Hamvention also warrants consideration. Before attending, it is important to know your options and what works best for you. On site parking offers shorter distances, and works well if you plan on buying a 35lb amplifier. Remember, amplifiers don't

walk themselves to your vehicle – they need to be carried.

The downside to onsite parking, is if it rains – you're trekking through sludge and swampy grass. Thankfully, offsite parking is also available at the local high school. This is where I parked, and the grounds are supported by nice solid layer of tarmac. A school bus will then shuttle you to the main event, drop you off, and continue to run circuits back and forth from the lots. This works well as long as you don't forget anything in your car.

Lastly, there was another site that also shuttled

Places to Go, People to See

Dayton is a happening town. Some things we talk about, some things we don't. It's very akin to Las Vegas with the *"What happens in Vegas, stays in Vegas"* mantra. A few of the more notable worthwhile events are listed below. These will coincide nicely with your trip to the ham radio capital of the world. Definitely, worth looking into.

Hamvention Forums – Each year, Hamvention hosts dozens of forums covering a variety of topics ranging from antenna design to software-designed radio and everything in between. Occurs over the course of the three-day weekend on the main Hamvention fairgrounds. Usually, the schedule can be found on the main website beforehand. Oh, and the best part – totally free!

Contest University – Sponsored by DX Engineering/ICOM and held the day prior to Hamvention. This event features a diverse group of speakers who present on a variety of different topics related to radio sport contesting. It's an all-day event. It's catered, and usually held at the Hope Hotel & Conference Center near the Wright-Patterson Airfield Base. You must pre-register online and there is a registration fee. See what the big boys are using and how they fine tune their antenna game!

Four Days In May (FDIM) – Sponsored by the QRP Amateur Radio Club International, it's billed as the "biggest and best QRP event in the world." Four Days In May is a separate event held during Hamvention at the Holiday Inn Hotel in Fairborn, OH – a mere 20 minute drive from Xenia. It offers a wealth of opportunities to learn new techniques, learn from leading members of the QRP community, and show of your QRP projects. Very fun and worth checking out!

National US Air Force Museum – Free, 100% Free. Say it again, "FREE!" Hams love a good deal, and it doesn't get much better than this one. Come see three (or four?) hangers worth of aircraft ranging from the vintage Sopwith Camels and Wright Brothers' gliders to modern planes such as the SR-71 Blackbird and F-22 Raptor! Simply massive, amazing and totally worth the stop while in Dayton. Located at the Wright-Patterson Air Force Base.

National "Voice of America" Museum – Voice of America became prominent during WW2 when president Roosevelt teamed up with Crosley to build a 250,000 watt transmitting array to beam international news broadcasts to listeners in war torn Europe, Africa, and South America. The idea was to combat the Nazi propaganda machine. Roughly a 40min drive south of Xenia, and includes a huge collection of antique and vintage radio equipment. The R.L. Drake collection is second to none! – A MUST for Drake radio owners & aficionados! There is a $10 entrance fee, but it's well worth it for the tour. They also usually offer extended hours during Hamvention.

Things to Bring

Let's not beat around the bush. I done screwed up! Being my first time in Dayton, I was a rookie and neglected to bring certain very necessary items with me. Just ask Small Guy. Sadly, I only discovered the value of said items after I arriving on site in the pouring down rain. The following is a list of items and recommendations you may find helpful.

Backpack / Tote Bag / Purse – You plan on buying stuff, right? Where are you going to keep it? Obvious, but maybe not so obvious.

Umbrella / Poncho – A classic! Started pouring down rain for the first two hours. I should have listened to Bookie. Expect rain – end of story.

Hat / Sunscreen / Sunglasses – After the rain, you get sun – lots of sun. Don't get burnt, enjoy your trip. You'll be outside most of the day. Be smart.

HT Radio (+ Earpiece) – K3MJW operated on 146.64 simplex w/ a PL 131.8. Nice to talk to your friends. Turn off the frequency shift.

Name Badge – Got any fancy identifiers? Let your friends (and enemies!) know you're coming with something they can see.

Cash / Money – If you plan on going to the flea market, bring cash. Some vendors take credit / debit cards, but don't assume all will.

Friends – Grab your XYL or best buddy. Hamvention is always better in a group. Maybe, you can even talk them into help sharing the hotel costs!

Map / Schedule – It's always nice to know where you're going. Have all of your addresses printed out ahead of time or saved on your phone.

Chair (Camping / Foldable) – There's a lot of walking in Dayton. It's nice to have a place to rest. However, you have to carry the chair. Know your limits.

Water – Did I mention there's a lot of walking in Dayton? Stay hydrated and don't ruin your trip by passing out.

Wagon – Saw a few collapsible wagons. Might be worth bringing if you park on site and want to haul items back to your vehicle.

Things to Consider

Well, if you made it this far, you might as well finish the article. Before I wrap it up, I want to pass on a few more addition bits of information you may find helpful.

First, "Bookie" (if you haven't figured out who this is by now, ask our radio officer) usually brings his truck and sets up a K3MJW / Breezeshooters tent in the flea market area. This is extremely smart and serves a two-fold purpose: 1) provides a place for K3MJW to congregate / seek shade, and 2) provides a drop-off spot for any heavy equipment you may not want to lug around with you all day. Pretty nice setup, right? I thought so These spots are not free and he does all the work of setting up, so be sure to thank him when you see him (note to self).

Second, have a plan. There is a lot going on a Hamvention. Almost a little too much. It gets overwhelming and you will get pulled in multiple directions. Veterans to the event already have a pre-established routine and will know where they want to go. You, being a first-timer, may want to take things a little slower and meander around. This was my case. There's a lot of ground to cover and it's difficult to do so in a timely manner. My recommendation is pace yourself and maybe visit just the indoor areas first. Save the flea market for later in the day or after lunch. Dayton is a marathon, not a sprint! However…

You want those deals, right? We all do! Nothing is sweeter than snagging that rare piece of unobtanium. Well, a few things to note when approaching the flea market area. Day 1 will have the largest selection, but also the highest prices. Sellers are not as motivated to sell cheap on Day 1 because they have a captive audience. Day 2 sellers are more willing to accept a lower offer, while Day 3 is the time when sellers try to offload equipment so they don't have to take it home. Use this information wisely. I skipped purchasing an item on Day 1 only come back to find it sold before I could make my purchase.

Lastly, have fun! There are no rules other than the typical etiquette required for common pleasant social interactions. Be friendly, and people will hopefully return the favor. If they don't, simply QSY down the band to the next booth. This is our hobby, let's make it the best it can be!

Quote of the Day:

"CW is an art...be an artist! - Frank (W8OK)

de Christopher J Vanek – AC3Q

What I Did On My Summer Vacation

de Cooky - WC3O

Dayton 2024 is in the books. When I say Dayton is the highpoint of my year, I mean it. I always tell people that you go from a world where almost no one knows what amateur radio is, to a world where EVERYONE is a ham!

Think about that for a sec. Let's face a simple fact. Within the mainstream population, we are weirdos. We hams make up such a small percentage of the crowd, how could we not be weirdos. 98% of folks I talk to for the first time have NO idea what amateur radio is. Why should they? Then once they have some idea, it's beyond them why they would want to become one. We, on the other hand, know what the advantage is. At least I hope you do.

My excitement about Dayton might sometimes seem a little over the top. But it isn't. As a weirdo, what could be better than going to a place where everyone is afflicted with the same gene deficiency? Folks that said "I want to be a ham!" When you go to Dayon, it's kind of a validation that I might not be a weirdo after all. Well... Sort of.

Everywhere you go during Hamvention you can strike up a conversation with a total stranger about propagation and they actually know what you're talking about! "How's about that solar flare last week?" "Yeah that was a bitch." As of this writing they just released the attendance numbers for Hamvention 2024. Almost 36,000! That's 36,000 people that know what the hell you're talking about!

I really don't know what year I started going to Hamvention. It's been around 30 years or more. The only time I missed was when my daughter graduated college. Damn. I have SO MANY great stories of Hamvention past. The rain. The snow. The tornados. The poop. The blood lost. The ICOM girls. The robot. The goat with the camera. Sleeping in the flea market. The guy in the space suit. The Russians. The dumpster dives. I could go on. All I know is I want to go back next year. Back to a place on the planet that I'm not such a weirdo.

Not everyone feels the same way about Dayton, and that's fine. I guess. I don't think they see it in the same light as I do. I kinda feel sorry for them. I know what it takes to put on our little Swap N Shop. I can't conceive

what it takes to put on Hamvention from year to year. How do you keep around 700 volunteers all pushing in generally the same direction? Can you imagine the logistics? Then think about what it took to go from Hara to the fairgrounds? A bizzilion details!

Gadz! Dara did it. Not only did they do it, they did it with style. It's still the fun event it has been all along.

There was a year or two that things were going downhill. I don't know the details but I think they hired a crew to do much of the work. It wasn't good. It lacked fun. It was strictly business.

It really wasn't good. Thankfully the folks at DARA figured it out. I would be interested in having some idea on how much money flows through this event. It has to be a lot!

So hats off to DARA - BIG TIME. Thank you for being a big-bright light in my life. I hope that all of you that made the trip this year found a little happiness. We really missed those that could not make it.

I'll see you in Dayton !!!!

de Cooky - WC3O

Lemon James: Another Dayton Story

de Bob - WC3O

For those that have attended Hamvention for many years, I'd really be surprised if you don't know what I'm talking about when I say Lemon James. I remember Lemon James WAY back at Hara. She is a musician. She was not hard to look at.

Every year there she was in the flea market with the ridiculous truck, psychedelic and all. Every year there was Lemon James wearing a cut-off shirt with her belly button on prominent display.

All of those many years I never said two words to her.

This year - I talked to Lemon James!

Time has gone by and gone are the cut-off shirts. She's older now, but still good lookin. Turns out that her real name is Tawn Beliger, KD8SNC.

It turns out that Tawn is running for Michigan State Representative in the upcoming election! We had a great conversation on a number of topics.

I was sorry we hadn't spoken to her earlier. She's a thinker, that one. So here's to you Tawn. I hope she makes it in.

de Cooky - WC3O

Welcome New Members !!

Welcome the following Skyview Radio Society Members who have joined us since publishing the February 2024 newsletter:

KB3UIO - John Sharick - New Kensington

KG3F - Bob Boehmer - Lower Burrell

Remember that something is going on up at 'the joint' every Tuesday. Sign up for the K3MJW Groups.io Reflector to get the latest news and event announcements by email.

If you are a reader who is interested in becoming a Skyview member, then go to: http://www.skyviewradio.net/ for information.

If you are a reader who is not yet a ham, and you are interested in becoming a ham, , then go to: http://www.skyviewradio.net/ for information.

Skyview Radio Society Roster as of 31 MAY 24

NM3A	AG3I	N3OIF	W3UY
N3AFS	AC3IE	KB3OMB	KX3V
KB3APD	KE3IF	K4PDF	KC3VCX
NAØB	KC3IIO	KC3PIM	KC3VNB
N3BAH	AB3IK	K2PMD	K3VRU
W3BUW	WB3IMB	KE3PO	KC3VYK
KF3C	W3IU	W3PRL	W3VYK
KA3CBA	K3JAS	KC3PSQ	N3WAV
KC3CBQ	N3JLR	KC3PXQ	KC3WCJ
W3CDW	KA3JOU	AC3Q	K3WM
K2CI	ND9JR	NU3Q	N3WMC
K3CLT	K3JZD	WQ3Q	KA3WVU
K3CWE	WA3KFS	KC3QAA	K3WWP
K3DCG	AC3KI	NJ3R	N3XF
N3DRB	ACØKK	K3RMB	N3YJN
KB3DVD	K3KR	W3RRK	W3YNI
KC2EGL	KC3KXZ	I2RTF	KB3YRU
KC3EJC	WE3L	KI2RTF	W3YS
AB3ER	WA3LCY	K3RWN	KB3YYC
WA3ERT	AC3LD	KQ3S	KE3Z
N3ERW	KC3LHW	K3SBE	K3ZAU
K3ES	K3LR	WA3SCM	W3ZVX
KG3F	KC3LRT	KC3SDJ	
WB3FAE	AB3LS	KC3SNZ	
K3FAZ	N2MA	KB3SOU	
KC3FEI	KC3MBM	K3STL	
K3FH	N3MHZ	KC3STV	
K3FKI	KC3MIQ	KB3SVJ	
KC3FWD	K3MJ	KC3TEX	
AC3GB	K3MRN	WV8TG	
N2GBR	N3MRU	N3TIN	
AC3GE	KS3N	N3TIR	
K3GIR	G4NFS	W3TLN	
KC3GPM	KB3NSH	KK3TM	
K3GT	AJ3O	N3TTE	
AB3GY	WC3O	KC3TTK	
KC3GZW	WO3O	AG3U	
NY9H	KC3OCA	NS3U	
WB3HFP	KC3OCB	WU3U	
WA3HGW	KC3OCC	KB3UIO	
KB3HPC	N3OEX	N3UIW	
K3HSE	K3OGN	KC3UNP	

Notes: Only Call Signs are being published. Refer to QRZ.COM for more information. (Unable to publish those without Call Signs.)

It will soon be time to trim this Roster.

Have YOU paid your 2024 Dues ??

Kul - Links

Jody - K3JZD

There is lots of stuff out on the Internet… Some of it can brighten your day. Some of it can educate you.

I can't really copy and past it all in here. But, I can point you at some of it . . . . .

They found a way to QRM our buried antennas
https://tinyurl.com/22dlcql9

I'll consider any Kul - Links that you find.
Email then to me at: K3JZD AT ARRL DOT NET
They might just end up in the next issue

Previous Issues

Previous Issues of the Q5er are available at

http://www.nelis.net

Next Newsletter will be August 1, 2024
Closing Date For Submissions : July15, 2024
K3JZD AT ARRL DOT NET

Become Well Known Publish in the Q5er

The Q5er goes to other clubs and is available to all on our web site.

Submissions to : K3JZD AT ARRL DOT NET

>>>>>> WARNING <<<<<<

An Alarm System has been installed up at the joint. Do Not go in there on your own until you learn how to disarm and rearm it.

**** Skyview VE Testing ****

For Testing Dates, See :
http://www.arrl.org/find-an-amateur-radio-license-exam-session
Time: Usually 8:15 AM

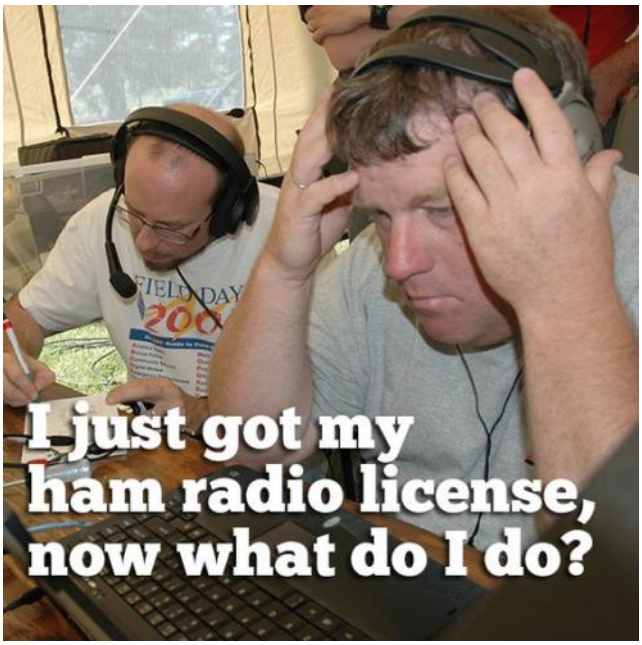
Location: Skyview Clubhouse Meeting Room
2335 Turkey Ridge Rd
New Kensington PA 15068-1936

Contact: Bill Dillen
(724) 882-9612
Email: bdillen@comcast.net
http://www.skyviewradio.net/ve-tests/

Please E-Mail or call to register!!!
While walk-ins are accepted, the exam session may be cancelled if no candidates are scheduled.

Q5er Editor & Publisher: Jody Nelis - K3JZD

email your comments and article submissions to: **K3JZD AT ARRL DOT NET**



That's Easy . . . .

Come up to the Skyview Clubhouse on any Tuesday and ask !!!

And See : https://tinyurl.com/y79tqsr8

All General Information about the Skyview Radio Society is at http://www.skyviewradio.net

Subscribe to K3MJW **groups.io** reflector for All Current News & Activities : https://groups.io/g/K3MJW
If you want to keep up with what is going on NOW, that is the place - have it forward msgs to your email

Is this how your dining room looks ??

Send in pictures of your Ham Shack