



# Scuttlebutt

October 2022

Issue 266

Saturday, October 1<sup>st</sup>, 2022  
YCCC General Meeting, 1:00 – 4:00PM  
Sturbridge Host Hotel, Sturbridge MA

## CAPTAIN'S LOG

Hi All,

The YCCC involvement at the Northeast HamXposition was substantial.

The W1A room set up and run by Gerry (W1VE) and Marty (NN1C) is starting to evolve as the YCCC gathering spot much as I had envisioned, our own mini-Contest Suite. Both nights evolved into great BS sessions where even the newcomers had great stories to share. Occasionally, someone would actually operate W1A, too.

The W1WEF YCCC Hall of Fame induction went well in my opinion. We somehow managed to keep it a secret until it was presented. Congratulations, Jack!

I want to thank Mitch, W1SJ and John, N1PGA for their talks. Unfortunately, the meeting attendance was on the disappointing side. We will reevaluate what is done for next year.

A proposed final wording of the constitution/bylaw amendments are included here. We will be voting on these at the October 1<sup>st</sup> meeting if we can manage a quorum.

Rudy, N2WQ inquired what operating incentives might be offered for this season. We will run the 3830Scores Write Up event as well as the BIC raffle. See inside for more details.

Tony, K1KP inquired why a YCCC scholarship was not offered for this year. Basically, we didn't have the funds. Without a raffle our fund-raising ability is solely dependent on donations. Additionally, we have been attempting to schedule a meeting with the ARRL Foundation to get to the bottom of a discrepancy in our account balance. Once this is sorted we will communicate our path forward.

We are in need of a Score Keeper for the CQWW DX and ARRL DX contests for this upcoming season. A lot of this role is just to be a cheer leader for the Club to insure everyone gets their scores in on time. Responsibilities also include providing regular updates about the provisional club score, helping members with the score submittal process, exchanging status with the FRC and PVRC Score Keepers and resolving discrepancies with club membership issues. Access to and proficiency with spreadsheets, data mining, slide preparation and possibly scripting is a plus. Drop me a note if you think you are up to the task!

I hope to see you at the Sturbridge Host Hotel, (<https://sturbridgehosthotel.com/>), 366 Main St. Sturbridge, MA on Saturday Oct. 1st. Meeting starts at 1:00 PM.

73, Ken – WO1N



<b>Yankee Clipper Contest Club</b>	
<b>President</b>	Ken Caruso, WO1N <a href="mailto:President@YCCC.org">President@YCCC.org</a>
<b>Vice President</b> 401-742-7240	Charles Morrison, N1RR <a href="mailto:VicePresident@YCCC.org">VicePresident@YCCC.org</a>
<b>Activities Manager</b>	Gerry Kersus, W1GD <a href="mailto:Activities@yccc.org">Activities@yccc.org</a>
<b>Secretary</b>	Brian Szweczyk, NJ1F <a href="mailto:Secretary@YCCC.org">Secretary@YCCC.org</a>
<b>Treasurer</b>	Chet Slabinski, N8RA <a href="mailto:Treasurer@YCCC.org">Treasurer@YCCC.org</a>
<b>Scuttlebutt Editor &amp; Publisher</b> (413) 593-6554	Steve Rodowicz, N1SR <a href="mailto:N1SR@arrl.net">N1SR@arrl.net</a>
<b>Webmaster</b>	Mike Gilmer, N2MG <a href="mailto:Webmaster@yccc.org">Webmaster@yccc.org</a>
<b>Scorekeeper</b>	<b>OPEN</b> <a href="mailto:Scores@YCCC.org">Scores@YCCC.org</a>
<b>W1 QSL Bureau Co-Managers</b>	Eric Williams, KV1J Dennis Egan, W1UE <a href="mailto:W1QSL@YCCC.ORG">W1QSL@YCCC.ORG</a>
<b>New Members</b> (603) 231-8965	Mark Pride, K1RX <a href="mailto:Members@yccc.org">Members@yccc.org</a>
<b>Media Manager</b>	Tom LeClerc, W1TJL <a href="mailto:Content@yccc.org">Content@yccc.org</a>

<b>Ship's Log</b>	<b>October, 2022</b>	<b>Issue 266</b>
Captain's Log	Ken Caruso, WO1N	1
Jack, W1WEF-Inducted into YCCC Hof F		3
October Meeting Agenda		3
YCCC Meeting Minutes - August, 2022		4
Constitution & Bylaw Cng – Paper Newsletters		5,6
Constitution & Bylaw Cng-- Honorary Life Membership		6
2022-2023 Fall/Winter Operating Incentives		7
With the Crew		7, 9
Is My Coax OK? - Chet, N8RA		8, 9
3-Element Reversible 40M Yagi – Mark, K1RX		10, 11
YCCC Club Resource Information		12



## Directions to Sturbridge Host Hotel

Sturbridge Host Hotel & Conference Center is located on Route 20.

- From the North, East and West, take the Massachusetts Turnpike (Interstate 90) to Exit 9, Route 20 West.

- From the South, take either Interstate 84 or Route 131 to Route 20 West.

Sturbridge Host Hotel & Conference Center is located on the shore of Cedar Lake, just past the first set of traffic lights.

.-.-/-.-.-/-.-.-/-.-.-

### Area Managers

<b>ME</b>	Mike Russo, K1EU	(207) 883-9524	<a href="mailto:k1eu@maine.rr.com">k1eu@maine.rr.com</a>
<b>ENH/NEMA</b>	Ken Caruso, WO1N	-----	<a href="mailto:wo1n@arrl.net">wo1n@arrl.net</a>
<b>WNH/SVT</b>	Craig Clark, K1QX	-----	<a href="mailto:k1qx@arrl.net">k1qx@arrl.net</a>
<b>SE MA (508) [co-mgr]</b>	Charlie Morrison, N1RR	(401) 742-7240	<a href="mailto:charles.morrison.n1rr@gmail.com">charles.morrison.n1rr@gmail.com</a>
<b>SE MA (508) [co-mgr]</b>	Dave Neil, W2DAN	-----	-----
<b>Boston (617/781)</b>	Joe Fitzgerald, KM1P	(617) 325-6767	<a href="mailto:jfitzgerald@alum.wpi.edu">jfitzgerald@alum.wpi.edu</a>
<b>WMA (413)</b>	Tom Homewood, W1TO	(413) 743-7342	<a href="mailto:w1to@arrl.net">w1to@arrl.net</a>
<b>CT (860)</b>	Rich Cady, N1IXF	-----	<a href="mailto:n1ixf@arrl.net">n1ixf@arrl.net</a>
<b>CT (203)</b>	Mike Loukides, W1JQ	(203) 458-2545	<a href="mailto:MikeL@oreilly.com">MikeL@oreilly.com</a>
<b>RI (401)</b>	Charlie Morrison, N1RR	(401) 742-7240	<a href="mailto:n1rr@n1rr.com">n1rr@n1rr.com</a>
<b>NNY</b>	John Corini, KE1IH	-----	<a href="mailto:John.Corini@gmail.com">John.Corini@gmail.com</a>
<b>NYC/LI (718)</b>	Tom Carrubba, KA2D	(631) 422-9594	<a href="mailto:ka2d@arrl.net">ka2d@arrl.net</a>
<b>SNY/NJ/PA (914)</b>	Hank Kiernan, KF2O	(914) 235-4940	<a href="mailto:hankkier@aol.com">hankkier@aol.com</a>
<b>NVT (802)</b>	Jason Garneau, K1LOL	-----	-----
<b>QUEBEC</b>	Guy Lemieux, VE2BWL	-----	<a href="mailto:guy@guylemieux.com">guy@guylemieux.com</a>
<b>CAPE &amp; ISLANDS</b>	----- <b>OPEN</b> -----	-----	-----

Articles in the Scuttlebutt (except for those separately copyrighted) may be reprinted, provided proper credit is given.

## **“Barnacle Jack” Schuster, W1WEF Newest Member of YCCC Hall of Fame**

“Barnacle Jack” Schuster, W1WEF, entered the amateur radio sphere in 1952 as a young teenager and is still at it at age 84. Recently he was recognized as the longest licensed attendee at the Xenia Hamvention Contest Dinner.

In 1977 after a hiatus to tend to the more important things in life he jumped back into contesting and DXing with both feet and is still competitive despite sticking to one radio.

He has willingly shared his tremendous depth of experience with YCCC members and others. We would look forward to his column “Flotsam and Jetsam” in the Scuttlebutt that he penned for many years. Jack would share his projects, tips and techniques on a regular basis for all to benefit. Jack singlehandedly enabled a generation of CW contesters with his CW Keying interface. Didn’t matter if you had Parallel or Serial ports, Jack had a solution for you.

An active contester, Jack’s accomplishments at the PJ9JT/W1BIH contest location include Class and World M/S wins. Jack can be heard on the bands every Wednesday in the CWT events with over 450 logs submitted to date and no signs of slowing down. Jack’s DXCC totals sit at 354 mixed confirmed.

As for dedication, how many of us would have fulfilled a promise to tend a WRTC site despite having our house burn down a few days before? Jack did, in 2014.

W1WEF richly deserves a place of honor as a member of the YCCC Hall of Fame. Congratulations, Jack!



Nominating Members: K1ZZ, N1RR, WO1N

-

-.-.-/-.../-.../-.../-...-

### **YCCC Meeting Agenda October 1, 2022 at Sturbridge Host Hotel**

1300 - 1315	<b>Greeting and Introduction</b>
1315 - 1330	<b>Club Business</b>
1330 - 1345	<b>New Members Intro and Vote</b>
1345 - 1400	<b>Constitution &amp; Bylaws Updates</b>
1400 - 1445	<b>WARCA Update (Gene Shablygin, W3UA)</b>
1500 - 1600	<b>Contest Cookbook Round Table</b>

-.-.-/-.../-.../-.../-...-

# Yankee Clipper Contest Club

## August 27, 2022 - Hamxposition, Marlborough, MA

### Meeting Minutes

President Ken, WO1N called the meeting to order at 1:11 pm at the Hamxposition held at the Best Western Royal Plaza Hotel and Trade Center, in Marlborough, MA.

President Ken, WO1N then asked for a Roll Call of the members present.

President Ken, WO1N then acknowledged several members who became silent keys, N1DS, N1RWN, KC1X, and N1XS and asked for a moment of silence.

President Ken, WO1N then announced the newest member of the Yankee Clipper Contest Club Hall of Fame: "Barnacle Jack" Schuster, W1WEF (See article on page 3)

President Ken, WO1N gave the Treasure's Report. A motion to accept was made by K1EP, Seconded by N1SV, motion carried.

President Ken, WO1N asked for the Secretary's Report which Brian NJ1F gave. A motion to accept was made by K1VR, Seconded by W1WEF, motion carried.

President Ken, WO1N then announced that at the next meeting (October) there will be a discussion and vote on a couple of proposed bylaw changes. The text of the proposed changes was published in the August ScuttleButt and will be re-published in the October ScuttleButt.

President Ken, WO1N gave an update on the clubs "Google Workspace Account" that Gerry W1VE is working to move to another ISP. The change is due to a change made in Google terms of service which requires the club to become a 501C3 non-profit. Gerry is working to complete the relocation and get the email services back to normal.

President Ken, WO1N then asked if there were anyone present who wanted to join the club. AB1HO, W1HMM, W2ID and AI4MD were welcomed aboard.

President Ken, WO1N then introduced Mitch W1SJ who gave a presentation on the ARRL Sweepstakes operating tips.

President Ken, WO1N then introduced John N1PGA who gave a presentation on Effective Contesting Antennas without a tower.

President Ken, WO1N then introduced Randy K5ZD who was going to conduct a Contesting Quiz. However, Randy suggested holding the Quiz at the next meeting. The Gift Certificates that were going to be prizes were given to Mitch W1SJ and John N1PGA.

The meeting adjourned at 4:09 pm

Submitted

Brian Szewczyk NJ1F  
YCCC Secretary



Ken, WO1N and Jack, W1WEF with Jack's YCCC Hall of Fame Plaque

# Constitution & Bylaw Change – Paper Newsletters

Ken Caruso, WO1N

The constitution requires at least 30 days advance publication of proposed Constitution and Bylaw changes. First published in the September 2022 newsletter, this will be voted on at the October meeting.

**Change:** Excise all references to paper newsletters.

## **Reason for change:**

We want to formally discontinue the printed/mailed version of the Club newsletter for cost and resource reasons. For the few members that have paid for this, if any, their membership will be extended appropriately.

Article VI of the Constitution and Section 6 of the ByLaws are affected:

### **Article VI**

[as amended 07 February 1999]

[as amended 05 February 2005]

[as amended 06 April 2013]

[as amended xxOctober 2022]

The Club, by majority vote of those present at a Regular or Special meeting and with a super quorum present and voting, may levy such dues as are deemed necessary for the operation of the Club.

Payment of current dues shall be a pre-condition for e-delivery of the YCCC Scuttlebutt, participation in the Club's e-mail reflector, and participation in the Club's various awards programs, e.g.: YCCC Challenge, general awards programs (mugs/certificates/top gun pins/etc.).

A lapsed member can reinstate their lost privileges by paying current dues.

Payment of dues shall not be a precondition for submission of member scores to the YCCC Club aggregate in competitions.

## **ByLaws**

### **6. Dues**

An annual dues assessment covering the calendar year is hereby levied pursuant to Article VI of the Constitution to meet current Club operating expenses.

The dues assessment schedule may be modified from time to time by a majority vote of the membership, with a super quorum present and voting, resulting in the automatic amendment of the applicable By-Laws.

The dues assessment schedule is as follows:

#### *Full Member (FE)*

\$15 (Eligible for YCCC awards programs and electronic delivery of Club newsletter, Scuttlebutt, here on referred to as E-butt.)

#### *Family Member (FM)*

\$0 (Grants full membership to all amateurs residing at one domicile on payment of one member's "Full Member" annual dues and entitlement to electronic delivery of the

Club Newsletter.All members of said family are eligible for YCCC awards programs.)

*Student Member (ST)*

\$10 (Grants full membership to students at a reduced level. Eligible for YCCC awards programs and electronic delivery of the Club Newsletter.)

*Subscription (SU)*

\$10 (A "friend of YCCC" not a member but a possible candidate for future membership. Receives Club newsletter in electronic form. )

A former member who has moved out of the Club area may continue to participate in the Club's e-mail reflector and receive the electronic newsletter at no cost.

[as amended xx October 2022]

-. - - / - . . . / - . . . / - . . .

## **Constitution & Bylaw Change – Honorary Life Membership**

Ken Caruso, WO1N

The constitution requires at least 30 days advance publication of proposed Constitution and Bylaw changes. First published in the September 2022 newsletter, this will be voted on at the October meeting.

**Change:** Add a new category of Honorary Life Memberships

**Reason for change:** Improve Club recognition of CQ Hall of Fame recipients.

Section 7 of the ByLaws is affected:

### **7. Honorary Life Membership**

Upon nomination by any active member and approval by a two-thirds vote of the members attending a Regular or Special meeting, with a super quorum present and voting, an individual may be granted Honorary Life Membership with no dues payment required. This membership would entitle the individual to all the rights and the benefits of a full membership.

7A. Honorary Life Membership will be bestowed upon current or former YCCC members who are or was a member in good standing when said member was inducted into any CQ Amateur Radio Hall(s) of Fame (Amateur, DX or Contest). Bylaw 7 is waived in this case as a result of the vetting process that occurs within these CQ Hall of Fame nomination committees.

[as amended 29 August 1998]

[as amended 05 February 2005]

[as amended xx October 2022]

-. - - / - . . . / - . . . / - . . .

## 2022-2023 Fall/Winter Operating Incentives

Ken – WO1N

Two incentive events are currently planned for the Fall/Winter Contest Season. The 3830Scores Contest Write Up and the Butt-In-Chair (BIC) Raffle. A quick explanation of the ground rules for both follows.

### 3830Scores Contest Write Up

The 3830Scores incentive works like this, I will select up to a ½ dozen 3830 posts made by YCCC members at the conclusion of the CQWW DX and ARRL DX contests, both modes, and present them to the executive board for a vote. Board members will consider the **Effort, Perseverance** and **Determination** of the station owner/operator and/or guest ops that the write up conveys and cast their votes accordingly.

The President is not eligible for the award. A winner can win only once per contest season (i.e. CQWW and ARRL DX combined entries). The President has discretion in the case of ties. There will be one winner per each of the 4 majors. The winning entries get published in the newsletter and will be awarded a \$25 gift certificate from DX Engineering or HRO.

### Butt-In-Chair (BIC) Raffle

The BIC challenge works like this, contest result write ups posted on the 3830Scores site can include operating time as an input. N1MM+ can provide this detail under the Off Times Report. For those that claim operating times of 20 hours or more per contest in their 3830Scores write up will get one entry into a pool of entries. The eligible contests will be the CQWW DX RTTY+CW+SSB, ARRL DX CW+SSB and CQWPX RTTY+CW+SSB. At the end of the BIC event an operator could have a maximum of 8 entries into the pool.

Paul, K1XM has graciously offered to run his random number magic on the entry list, first assigning random numbers to the entries and then running a random number selector to pick the winning entry. The Club will sponsor a gift certificate for this event. The winner will be announced early in July or at the Club cookout (if any).

That about covers it for this season. As always, the Executive Board is open to incentive ideas such as these.

-. - - / - . . . / - . . . / - . . .

### With the Crew:

**Ed, N2HX:** Will be at PJ7PL for CQWW SSB & CW this year. He's running Low Power so he'll especially appreciate being spotted frequently!

**Jack, W1WEF:** I was just using my old Weller D440 gun outdoors to repair an antenna, and when I was ready to put the gun away I found that the switch was stuck ON. I had this happen years ago with another Weller gun, and I believe if it was touching the right thing long enough it could start a fire. Just a heads up...unplug.

**Gerry, W1VE and Dick, WC1M:** Have been selected to be referees at WRTC 2022. Congratulations to both Gerry and Dick!

**Craig Clark, K1QX:** I had my Novice from 1967-68. One of the projects I built was a transmitter designed by W5LET from Electronics Illustrated IIRC. As I remember it used a 12AX7 as an oscillator and PA. I have searched and find another iteration with a different tube. Does anyone remember the 12AX7 design?

# Is My Coax OK?

Chet, N8RA

When dismantling my station prior to moving to a new QTH, I found that in the past 31 years I had accumulated 70 pieces of coaxial cable of lengths from 15 to 170 feet. (This added up to 4159 total feet of coax!) Each length had been rolled up and listed on a rough inventory and the pieces have been stored in the basement and backyard.

Now the question is: which ones are still good to use for the new station and antenna farm?

A presentation by W1FKF and W1GHZ at one of the VHF conferences described a technique for testing cable loss using an inexpensive vector impedance analyzer. The analyzer they used was an N1201SA that sells for about \$150. This model only covers frequencies from 137 MHz to 2700 MHz, but lest you think it is of no use to HF contesters, read on.



The cable under test can have its far end open, shorted, or even connected to one of your antennas. Its characteristic impedance does not matter.

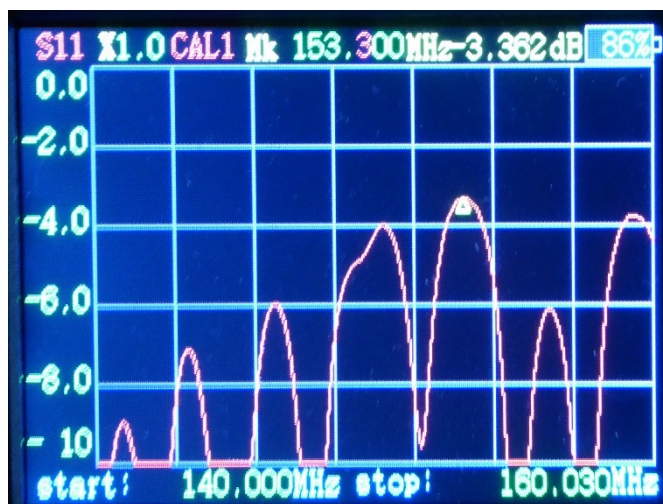
With the analyzer in the frequency sweep mode plotting parameter S11- the “return loss (I usually used a range in the 140 to 190 Mhz region), look for a minimum S11. The concept is that RF going down the cable will be totally reflected back if it encounters a very high impedance at the far end. What RF gets back to the meter end its strength will be the original signal strength minus the loss going down and minus the loss coming back up the cable. The ratio of the original to the returned signal is S11.

So, look for a minimum in the sweep, move the display’s cursor to that point and read off the frequency and S11. Divide the S11 by two (the RF suffered cable loss going down and again coming back), and you have the cable loss at that frequency. To be little more precise, subtract the small S11 value of the short jumper cable that is used to attach the meter to the cable under test.

## Here is one of my measurements:

Since S11’s are negative values, the minimum is how high to the top of the screen they go. The cursor’s bright dot was scrolled onto this “peak” and the numeric readout indicates -3.362 dB at 153.3 MHz. My jumper cable by itself has an S11 of -0.5 here, so this cable’s loss is

$$\text{cable loss} = (3.362 - 0.5) / 2 = 1.4 \text{ dB}$$



The second part of determining “is that cable any good?” is to compare what you have measured to the manufacturer’s or handbook data for that type of cable, at that frequency, for that length of cable.

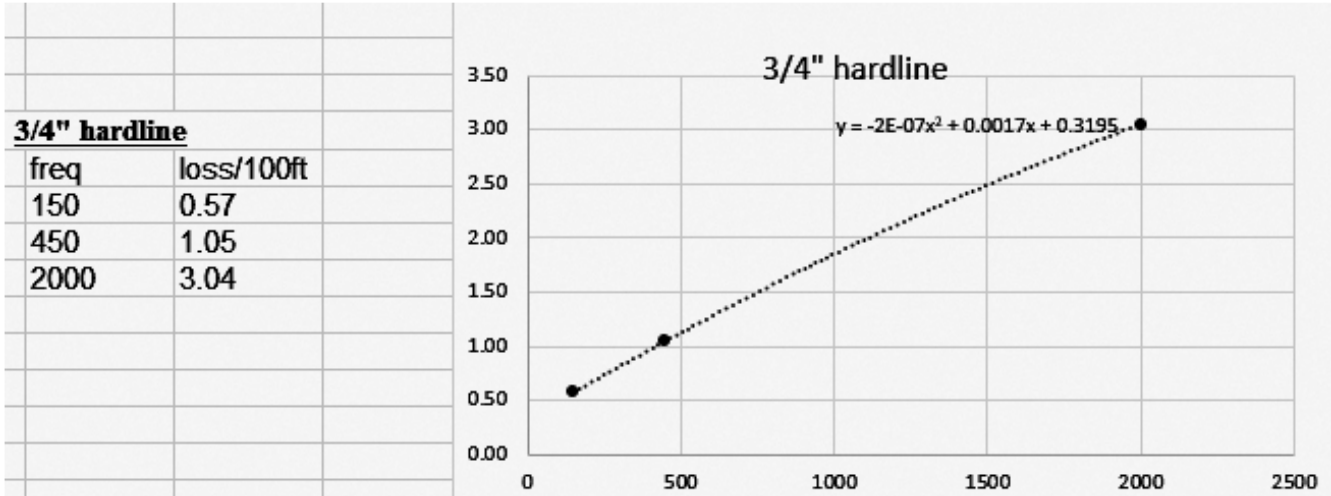
I had a lot of cables to test, so I set up an Excel spreadsheet to take care of the math to take into account the frequency, jumper cable subtraction, cable length, and cable type.



Here is a screen shot of a few rows of that spreadsheet with some cables that tested “good”:

location	length (ft)	type	measured return loss	freq (MHz)	meter and jmp return loss	measured 1-way loss	theoretical loss
backyard	150	3/4" hardline with commercial hardline connectors N type (was "RM")	1.85	182	0.6	0.6	0.9
in use up VHF tower	80	3/4" hardline with homebrew connectors (was from house to rot twr black box)	1.47	165	0.5	0.5	0.5

The theoretical loss column uses an equation for 3/4" hardline derived on a separate sheet. Basically, I list handbook cable loss data for a few frequencies, do a scatter chart, and let Excel fit an equation, and then use that equation. I did this for all the cable types I was measuring; hardlines, LMR-400 and 600, RG-213, etc.



Once set up, a lot of cables can be tested for goodness very quickly.

Earlier, I mentioned that you can easily test a coax run that is already connected to an antenna. In fact, the sweep photo shown above was a measurement from my shack to a 2M yagi (but it could just have well been a tribander). This cable run consists of a 10' LMR400 jumper thru the basement wall, attached to 80' of 3/4" 75 ohm hardline, attached to 30' of LMR400 going to the 2M yagi. The loss of this whole chain is 1.4 dB- within spec for all these individual cable losses totaled, and would be slightly less at the 144 MHz frequency of use.

Many other uses possible for this little gadget, but that is a subject for another day.

73,  
Chet, N8RA

-. - - / - . . . / - . . . / - . . .

### With the Crew:

**Randy, K5ZD:** In case you haven't noticed, Randy has spent most of the summer and fall rebuilding his antenna farm. His website/blog is fascinating to read. Should be done just in time for CQWW. See: <https://k5zd.com/tower-replacement-project/> and <https://k5zd.com/tower-replacement-project-part-2/>

**Jack, W1WEF:** You're probably already addicted to it but here's another one you can get addicted to...MORSLE. Check out Morsle...fun. Good CW practice.

## 3-Element Reversible 40M Yagi at K1RX

Mark Pride, K1RX

Background: I heard that Jeff, VY2ZM made 3-element Yagis using Cushcraft (CC) elements for all elements. Joe, W1JR suggested that the losses with all those low-Q lossy coils would make that design low in gain. I took a different approach and only used CC elements as the parasitic elements and built my own DE - longer, fewer coil turns, higher Q.

Because I wanted to avoid loading up my rotor and sharing premium space with other antennas I decided to make this a fixed Yagi to cover NE/SW and use other antennas to cover the other less populated quadrants. The boom sits at 60 ft, the DE is at 63 ft.

I happened to have a 42 ft long, 3 inch OD boom and used that to support the two parasitic elements. I installed a truss support using a separate truss mast which is mounted to the boom (offset from the center boom-to-mast plate which mounts the boom to two of the tower legs).

The driven element is mounted 3 feet above the boom, mounted across two tower legs. Yes - you can absolutely have elements on a different plane and still get excellent coupling and it can be mounted above or below the boom - I chose to mount it above so I could raise or lower the boom to adjust the reflector tuning.



The DE is trussed with “Phillystran” - it is a homebrew element that is 55 ft long split element using a 2” OD fiberglass tube from (“Maxgain”) as the center insulator, with a loading coil about 7 ft from each end made with smaller diameter fiberglass tubes as coil forms. This DE is made from bone yard - 2-1/8 inch OD tapering out to 3/4 inch OD or so tubing.

Parasitic elements are recycled CC 402CD driven elements used as directors tuned to 7400 kHz.

Raised and lowered to 30 ft to make adjustments to length until I reached 7400 kHz. Then added a stub at the center but opened one side to add the coax to reach the meter (RigExpert AA55 Zoom) on the ground.

After trying many settings of stub length I arrived at a 7 ft length to be my starting reflector frequency. I made notations on the stub for different frequencies (every 50 kHz) for easy adjustment and final design.

The stub was made from 3/8 inch OD aluminum tubing and used a shorting strap to adjust the frequency. Spacing was about 3-1/2 inches.

After setting the director frequency and finding a starting point for the reflector frequency (around 6700 kHz), I then mounted the two elements to the boom and supported the stub with a few pieces of some split PVC tubing, cut little over 4 inches long and secured with some right angle brackets with screw holes to the boom. The stub was mounted on top of the boom, about 2 inches high.



I placed a 10A, open frame, 12 Vdc relay in a small 4x4 inch sealed utility box at the center of each parasitic element insulator point and used these connections to open/short the stub to make the element either a director or reflector (opposite action on the other element) to switch directions. I run two insulated wires down the boom to control the relays. Some RF bypassing on the relays was applied.

After getting the DE set for the center of the band (7100 kHz), I mounted that broadside to Europe across two tower legs at about 63'.

I then raised the boom and the two parasitic elements to 60 ft and temporarily mounted to the tower. These elements were parallel to the DE.

Spent several nights testing the antenna for Front-to-back until I got tired of climbing the tower, tilting the boom, sliding the shorting strap on the stub and when I thought it was good enough. Seemed the F/B was pretty much 10 dB with nearly every setting (ugh) , until finally hit the sweet spot and got up to 20 dB in the phone operation of the band and still got decent F/B on CW. Called it quits at that point. Reflector was set at 6850 kHz.

I know it could be further improved but just decided to stop the “science project” there.

Its been up for 4 years now and has been fantastic! I can hot-switch it with no problems, instant direction change has proven to be very helpful and plays beautifully! Granted it's only 60 ft up, mounted on a 75 ft Rohn 45 tower but it is great during the band opening. Of course it would play better for the later night (low angle) time if it were higher, but for me, it has kept me competitive on 40 with little complication and maintenance.

And of course it doesn't (and shouldn't) end here!

### **Planned future version:**

Imagine two of these 3-element reversible Yagis, one on top of the other, but 90 degrees apart. Maybe with boom spacing 5-10 ft apart?

Now instead of using split driven elements, you make the boom of the 1<sup>st</sup> Yagi the DE for the 2<sup>nd</sup> Yagi (hope you follow) and feed using a gamma match at the tower mount area and add stingers to each end of the boom(s) to make it full size. (My vision is 42 ft long, 3 inch OD boom, extended with 1 inch tubing on each end to reach close to 65 ft +/-). The parasitic elements still sit at 21 ft from the center, on each end. The first step here would be tune the boom/extension to the center of the band with the gamma match. Then take it down and mount the parasitic elements to it (which would be part of the 2<sup>nd</sup> Yagi a few feet above (or below) it).

Now you have all 4 quadrants covered by a 3-element Yagi using two coax lines, instant direction change, hot switching no issue, no rotor and you are competitive! This is what's planned at an contest station now under construction. This combo will be part of a stacked array too. Again this eliminates the use of a rotor, swinging gate or ring rotor!

## YCCC CLUB RESOURCE INFORMATION

**DUES AND MEMBERSHIP STUFF** Dues for the year are payable as of January 1<sup>st</sup>. Please note that payment of current dues IS NOT a prerequisite for contributing scores to the Club aggregate but IS required for participation in the Club's e-mail reflector and the Club's awards programs. The YCCC has a multi-tiered membership:

**Full Member** - \$15 (Available to amateurs residing within the Club territory for all YCCC member benefits and e-mail delivery of the Club newsletter.)

**Family Member** - \$0 (Grants full membership benefits to all family amateurs residing at one domicile upon payment of one member's "Full Member" annual dues. The Club Newsletter will be sent to the full member's email address.)

**Student Member** - \$10 (Grants full membership to students at a reduced cost.)

**Subscription**- \$10 (A "friend of YCCC", not a member, but a possible candidate for future membership and receives club newsletter in e-mail form.)

**Former Member** - \$0 (A former full member who has moved out of the Club territory may continue to participate in the Club's e-mail reflector and receive the e-mailed newsletter at no cost.)

You can tell if you owe dues by checking the Club roster on the website. A lapsed member can reinstate lost privileges by paying current year dues. Mail your dues to the club treasurer, **Chet Slabinski, N8RA, 200 Mount Parnassus Rd, East Haddam, CT 06423, or PayPal them to [yccc-paypal@yccc.org](mailto:yccc-paypal@yccc.org)**. Please include your callsign, family callsigns, and year(s) being paid. PayPal no longer allows the Club to receive dues from "family or friends" so you will not have that option.

**SCUTTLEBUTT ARTICLES** should be sent to the Scuttlebutt editor, Steve Rodowicz, N1SR, by e-mail at [n1sr@arrl.net](mailto:n1sr@arrl.net) The deadline for each issue is the 10th of the preceding month or as announced on the YCCC e-mail list.

**Scuttlebutt Advertising:** Nominal Business Card sized ad, \$50 per year (6 appearances)

**CONTEST SCORES** should be sent to the club scorekeeper, Alec Berman, W2JU, preferably by E-mail at [scores@yccc.org](mailto:scores@yccc.org). Please include details such as numbers of QSOs, QSO points (if appropriate), and multipliers (all types); entry category; and power.

### CLUB GOODIES

**BADGES** YCCC badges are available from Tony, K1KP. Send \$3, name and call desired on the badge, and your mailing address to Tony.

### YCCC APPAREL & LOGO ITEMS:

Contact Gold Medal Ideas - [https://stores.goldmedalideas.com/Yankee\\_clipper\\_contest\\_club/shop/home](https://stores.goldmedalideas.com/Yankee_clipper_contest_club/shop/home)

**QSL CARDS** are ordered through Tom, W1TO. To order, complete the QSL form from the YCCC website, send it to W1TO who will verify all information is included and send to UX5UO after resolving any issues. You will receive a proof copy directly from UX5UO. Approve the proof after resolving any issues with UX5UO. Email acceptance to UX5UO with copy to W1TO. Current price is \$45/thousand (matte) and \$49/thousand heavy matte. Payment to UX5UO representative, KD4POJ at Mr David Lipscomb, KD4POJ, 4201 13<sup>th</sup> Street NE, Minot, ND, 58703. eMail: [kd4poj@srt.com](mailto:kd4poj@srt.com)

**MEMBERSHIP ROSTER** is posed on the YCCC website. Updates are published in 'Movers and Shakers' when members move or change callsigns.

**COMPUTER STUFF INTERNET REFLECTOR** There is an Internet mailing list for YCCC members. To subscribe, go to <https://groups.io/g/yccc/join> and enter your email address.

**WWW HOME PAGE** Come visit us at <http://www.yccc.org> Our Webmaster is Mike Gilmer, N2MG.

**QSL BUREAU – The W1 QSL BUREAU** is sponsored by the YCCC. For more information at: [www.w1qsl.org](http://www.w1qsl.org)  
Address: W1 QSL Bureau, PO Box 73, Marlborough, MA 01752-0073. Email address: [w1qsl@w1qsl.org](mailto:w1qsl@w1qsl.org)

### ARRL COMMITTEE REPS:

<b>CAC: New England</b> Rudy Bakalov, N2WQ	<b>Hudson</b> Zev Darack, N2WKS	<b>Atlantic</b> Charles D Fulp Jr, K3WW
<b>RAC</b> Samuel A Ferris, VE5SF		

<b>DXAC: New England</b> Bob Beaudet, W1YRC	<b>Hudson</b> Saul Abrams, K2XA	<b>Atlantic</b> Chris Shalvoy, K2CS
---	---------------------------------	-------------------------------------

<b>ARRL LIAISON:</b> Bart J. Jahnke, W9JJ	<b>Hudson</b> Frederick Lass, K2TR	<b>Atlantic</b> Joe Taylor, K1JT
---	------------------------------------	----------------------------------