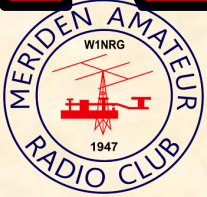


KEY KLIX



MERIDEN AMATEUR RADIO CLUB
1947 -- 2023



JANUARY 2023

ALL MEETINGS WILL BE HELD ON ZOOM UNTIL FURTHER NOTICE.....

OFFICIAL MAILING ADDRESS, MERIDEN AMATEUR RADIO CLUB, POB 583, MERIDEN CT 06450
PRES W1YSM ED SNYDER VP KB1JL ERIC OLLSON SECT N1BRL BART TOFTNESS
TRES KC1OYN RICK BECKER S.A.M. K1RCT ROB CICHON

KEY KLIX EDITOR —DAVE SWEDOCK K1WJL
DSWEDOCK@GMAIL.COM 203 235-8582

**WE ARE CHANGING OUR MEETING TIMES
TO START AT 7:00PM INSTEAD OF 7:30PM
FOR BUSINESS AND ACTIVITIES.**

MEET YOUR NEW TREASURER



RICK BECKER KC1OYN

Rick attended H.C. Wilcox Technical School and graduated from the Machine/Tool & Die program. After graduation, he attended Greater New Haven Technical College as a Manufacturing Engineering major while working full time and earned Journeyman Class-A Tool & Die Maker. He is currently employed by Component Engineers, Inc., a contract manufacturer, as Principal Engineer. Rick is very adept at functioning within a corporate structure and working as part of a team with the officers of a corporation. He is experienced with working budgets, purchase orders, invoices and quotes and he is highly proficient using computers and software including Excel, Word, Quicken, TurboTax, Outlook, PowerPoint, and many engineering programs.

In the midst of high school, Rick was active with CB Radio and, in 1980 earned a Novice Amateur Radio license. KA1GSV, with a station in his bedroom and a dipole and a vertical for antennas. Like many others at the time, Rick got busy with life and, sadly, let his license lapse and eventually packed away the shack. Rick married Tracy the love of his life. raised an extraordinary son and celebrated their 30th anniversary a couple of weeks ago, . Through the years he never really lost the Ham Radio bug, and March 13th 2021, took and passed the Technician exam (KC1OYN) at a MARC VE session, joined MARC on March 23rd 2021 and was voted in as a member at the next business meeting in April 2021. Rick became a General class On May 8th 2021 at MARC VE session. Rick continues to be active in a multitude of club activities and events.



ACTIVITY YEAR IN REVIEW 2022 W1NRG – MERIDEN AMATEUR RADIO CLUB

W1NRG, the Meriden Amateur Radio Club (MARC) had a productive year 2022. We increased our **Membership** from 110 to 143 members. This increase was due to several factors. First, the popularity of our Coffee Club Net from 0900 to 1000 (ET) every Saturday on our W1NRG Repeater 147.36 (PL 162.2). It was also due to our popular **VE sessions** held the 2nd Saturday of every month in person, where we often recruited members from the new or upgrading hams. We average 2-4 examinees, per session. Word of mouth also was an active source of new members.

Our members participated in weekly **Fox Hunts** and frequent **POTA OnAir** activities. We held **OnAir Nets** on Monday, Tuesday, Thursday, and Saturday. We also had an Elmer Zoom meeting every Sunday night at 7:30pm. We participated in multiple **Served Agency Activities** by providing security and communication services for the: Cheshire MS Walk; Hole-in-the Wall Bike Ride; YMCA Fishbein Race; Wallingford Town Celebration/Parades; and BSA JOTA. We were present at **Field Day** and **The Big E**. W1YSM is also **SKYWARN EC for New Haven/Middlesex Counties** providing weather updates to several area Hospitals.

We coordinated a **CQ Santa activity** where children spoke to Santa and Ms. Claus on simplex from our OEM. Six of our members were **CERT Certified** by the Town of Wallingford. We celebrated our **75th Anniversary** with a gala event attended by Mayor Dickinson, Fire Chiefs Czentnar and Heidgerd, NE Division Director AB1OC (Fred), Vice-Director K9HI (Phil), and ARRL FSM (Mike) W8ZY. Our 75th anniversary included an **OnAir W1N SES activity**. We held the **NUTMEG Hamfest – the ARRL sanctioned State Convention in October**. We provided our yearly **\$1000 STEM High School Scholarship Award** to a college-bound high school student. We also started a **CW Teaching Program** for those wanting to learn the code – 8-10 members participated. We held a Diamond and Gold Contest, a Lark in the Park picnic, met Saturday mornings at the OEM, had monthly Business Meetings and Activities meetings, held a Year in Review Pizza-fueled meeting, returned finally to in-person and Zoom hybrid meetings at OEM; created 75th anniversary coffee cups and banners, and held a Holiday Party. We said sad good-byes to several beloved members who are now SKs. But we also welcomed new grandchildren to some member families – future Hams in-training??

We were honored to have received an **ARDC ARRL Grant for our MARCONI Project** – (Motivating Amateur Radio Clubs to Open New Initiatives). Basically, it will allow us to **Mentor other less active clubs** in multiple areas of amateur radio. In essence, we will be acting as an Elmer to other clubs in CT. There are 7 areas of MARCONI activity: **POTA; Fox Hunts; CW Classes; Satellite Coms; VE Sessions; Served Agencies; and Traffic/NCS Activity**. This will synergize with the ACC activities of W1YSM.

For 2023 in addition to the above, we plan to **Launch a Weather Balloon** and in 2024, **possibly a set of Cube Sats**. We will also plan to increase our “other club” mentoring activities as per the MARCONI Award and increase our own club Elmer activities aimed at educating our own new and inexperienced hams. The MARC Constitution and By-Laws will be revisited in 2023, too. It has been an active year and we are so very grateful to the ARRL, Fred AB1OC, Phil K9HI and Mike W8ZY for their strong support.

Edward Snyder, MD ---- W1YSM
President MARC W1NRG



“BOBCAT” CARRUTHERS KIB1FYL OBITUARY

Robert William Carruthers of Cheshire, CT, known to family and friends as Bob, Bobcat, or Bobby, passed away on December 15, 2022 at the age of 75. Bob was born on July 28, 1947, in Ayer, Massachusetts, and was the eldest child of Robert and Dorothy (Dill) Carruthers.

As a child, Bobcat moved all over the country, but graduated from Daniel Hand High School in Madison, CT. Bobcat was an adventurer who pursued mountain climbing sailing while earning a degree in Civil Engineering from

Tufts University. After graduating, he worked in civil engineering but also in many other fields as well. He followed his passions and found employment as a chef, musician, astronomer, teacher, and mentor. He loved the outdoors, playing his guitar, building telescopes, being a HAM radio operator, riding bikes and motorcycles, and being an active member of his Unitarian Universalist Society. Bobcat had the ability to connect with others in meaningful ways and had many, many friends. He always made time to have a chat or go out of his way to help someone.

In addition to his parents, Bobcat was predeceased by his loving wife Patricia Carruthers. He is survived by his brother, Mark Carruthers, his sister, Jill Eberle, and special friend Gaienne Redleaf Jenkins. He is also survived by four stepchildren: Denise Nazario, Jeanine Connelly, Vernon Stancuna, and Darrell Stancuna. Donations in his honor will be welcomed by the First Unitarian Universalist Society of New Haven, 608 Whitney Avenue, New Haven, CT 06511, or Two Coyotes Wilderness School, 197 Huntington Road, Newtown, CT 06470.

A message from Todd K1TDO

I am ending my music band called Bobcat and The Night Owl(s) on the recent passing of our front man Bobcat Carruthers. Bobcat and I recorded one last CD I would like to offer you for \$5 each called Visions of Reality with lyrics by me. Bobcat and I made 8 CD's together including 1 solo CD by him. The band was together for almost 20 years. To order a CD contact me at k1tdo@icloud.com. Bobcat Carruthers will be missed by myself and many others.

Thank you I appreciate it.

de Todd K1TDO

Bud Kozloff, W1NSK, Appointed as ARRL Connecticut Section Manager

Bud Kozloff, W1NSK, has been appointed as the ARRL Connecticut Section Manager starting on January 1, 2023. Bud who lives in Redding, Connecticut, is currently the president of the Candlewood Amateur Radio Association and a member of the Yankee Clipper Contest Club. He was appointed by ARRL Field Services Manager Mike Walters, W8ZY, after consulting with New England Division Director Fred Kemmerer, AB1OC. His term of office continues through September 30, 2024. Kozloff takes the reins of the Connecticut Section Field Organization from Betsey Doane, K1EIC, who was appointed by ARRL Headquarters as the Connecticut Section Manager in November 2022 to fulfill the role on a temporary basis until a full-time Section Manager could be appointed. Betsey was previously the Connecticut Section Manager for 25 years from 1991 to 2016. Chuck Motes, K1DFS, of Plainville, served as Connecticut's Section Manager for the last 6 years. He decided not to run for a new term of office when his third term concluded on September 30, 2022.



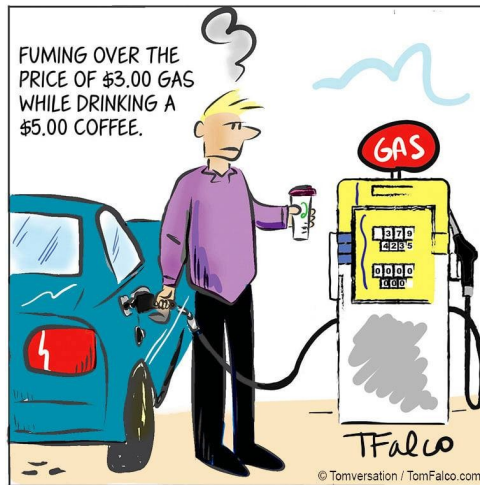
MARC CALENDAR OF EVENTS
JANUARY 2023 TO FEBRUARY 2023

- JAN 12.....MARC BUSINESS MEETING ON ZOOM ONLY,
- JAN 14.....VE SESSION
- JAN 26.....ACTIVITIES MEETING ON ZOOMRICH WA1TRY WITH DAVE K1WJL
ASSISTING CLUB HISTORY PART 3.....FIELD DAYS OF THE MARC
- JAN 28//29WINTER FIELD DAY
- FEB 9.....MARC BUSINESS MEETING IN PERSON AND ZOOM???,
- FEB 23.....ACTIVITIES MEETING

VE SESSIONS AT THE OEM, 143 HOPE HILL ROAD, WALINGFORD.
EVERY 2ND SATURDAY, NEXT ONE IS SATURDAY JAN 14TH 2023

CLUB NEWS:

THE CLUB IS SADDENED WITH THE PASSING OF BOBCAT KB1FYL WHO WAS A TRUE ORIGINAL SPIRIT IN MANY WAYS. HIS OBITUARY IS LISTED WITHIN THIS KEY KLIX



To everyone that
received a book from
me for christmas,
they're due back at
the library next friday.

Thank you.



Why science teachers
should not be given
playground duty.

**Banks need to get
better at restocking
these ATM's at
Christmas...**

**This is the 5th one I've
been to that has
"Insufficient Funds"**



Secretary Report & Minutes of the Meriden Amateur Radio Club Bart Toftness N1BRL , Sect.

BUSINESS MEETING DECEMBER 1. 2022 ZOOM

Secretary Report of the Meriden Amateur Radio Club, December 2022

Bart Toftness, N1BRL, Secretary

December 1, Year in Review / Pizza Party began at 6PM and concluded at 9PM. This was our first attempt to conduct a hybrid mode meeting. The meeting was called to order by President Ed Snyder, W1YSM and conducted in a less formal Town Hall Format. Nearly 30 members were in attendance to enjoy the pizza, soda and cookies while another 12 joined in via Zoom. Clearly the hybrid format needs some changes to improve the experience of those on Zoom. W1YSM reviewed MARC's many activities and accomplishments of 2022. These activities have led to a significant increase in club membership. W1YSM provided a status report on the ARRL "MARCONI" Grant and objectives for 2023.

December 8, Christmas Party approximately 30 members and significant others attended a dinner at Serafino's. The evening's entertainment "Whose Shack Is It Anyway?" was provided by AB1DQ, James Surprenant. First place went to N1BRL, Bart Toftness who correctly identified an astounding 21 out of 23 member ham shacks and is named the SUPREME CHAMPION for 2022. Second place goes to N1BRI, Brian Beegan, who correctly identified an amazing 19 out of 23 member ham shacks and is named the TRIVIAL DELINQUENT for 2022.

Ham Of the Year honors went to WB1GYZ, Bob Biancur and N1BRI, Brian Beegan completed his evening as Elmer Of the Year.

December 10, CQ Santa The VE session was followed by our CQ Santa program where children come to talk to Santa via ham radio. Again KC1DOY, Ted was the radio control operator at the OEM and Rick, KC1OYN and his XYL filled in for Santa and Mrs. Clause at the North Pole.

Secretary's Report (N1BRL)

At the Year in Review meeting the attending membership was ask to vote to approve the November Business Meeting Minutes which passed without objection. The Secretary reported that a new supply of MARC Business Cards is now available. Three new member applications, KB1KTZ, Carl Fosse, WA1MAC Paul Clark and W1PRK James Procaccini were each approved by membership vote without objection.

During the Saturday Morning 2 meter Coffee Cup Net W1YSM conducted the Silent Key Ceremony in remembrance of KB1FYL (SK) Bobcat (Robert) Carruthers.

Voting Summary for the December Year in Review meeting

November meeting minutes were approved.

KB1KTZ, Carl Fosse, WA1MAC Paul Clark and W1PRK James Procaccini were each approved for membership.

Respectfully submitted,

Bart Toftness, N1BRL



CQ SANTA AT THE OEM DECEMBER 10, 2022



MARC XMAS PARTY DEC 8TH 2022



CONGRATULATIONS TO BRIAN BEEGAN N1BRI AS BEING AWARDED THE 2022 MARC "HAM OF THE YEAR" AND BOB BIANCUR WB1GYZ THE 2022 MARC "ELMER OF THE YEAR"



CONGRATULATIONS TO JAMES SURPRENANT AB1DQ FOR A REALLY GREAT ENTERTAINING PROGRAM AT THE MARC CHRISTMAS PARTY, "WHOSE SHACK IS IT ANYWAY?". THE WINNERS WERE BART N1BRL AND BRIAN N1BRI WHO BESIDES THESE GREAT CERTIFICATES, WERE ALSO AWARDED A YEARS EXTENSION ON THEIR C;UB MEMBERSHIP....

Certificate of Award

In recognition of his superior performance in the game of **Whose Shack Is It Anyway?** played on December 8, 2022 at the Meriden Amateur Radio Club Christmas Party correctly identifying 21 out of 23 member ham shacks,

BART TOFTNESS, N1BRL

is hereby named our reigning **SUPREME CHAMPION** and awarded a one-year membership in the Meriden Amateur Radio Club



Certificate of Award

In recognition of his superior performance in the game of **Whose Shack Is It Anyway?** played on December 8, 2022 at the Meriden Amateur Radio Club Christmas Party correctly identifying 19 out of 23 member ham shacks,

BRIAN BEEGAN, N1BRI

is hereby named our resident **TRIVIAL DELINQUENT** and awarded a one-year membership in the Meriden Amateur Radio Club

FOR THE JANUARY KEY KLIX

There will be a Castle Craig Chapter Net on Friday February 3rd 2023 on the club net frequency of 28.375. The purpose of this net is to kick off the 10-10 Winter QSO Party. I hope that all club members will join in. Even if you do not have a 10-10 number you are worth 1 point to the rest of us who do and are submitting logs. The QSO Party runs from 0000 UTC February 4th 2023 to 2359:59 February 5th 2023. If you are a paid up 10-10 member your support of the club, and our chapter would be appreciated. Please make as many contacts as you can, and submit your log for credit. Remember to mention that you would like to credit Castle Craig Chapter of 10-10 with your score.

Log submission must be made by 2/10/23 by email to tencontest@ten-ten.org you can also mail your log to the contest coordinator Dan Morris KZ3T, 3162 Covington Way, Lenoir, NC 28645.

We will start taking checkins at 7:45 PM local time, (00:45 UTC), and I will be the Net Control. I would like a station to help with relays if needed. The procedure is simple. At 8 PM local time, (0100 UTC Feb. 5th), we will start from the top of the list, (myself), and I will give my 10-10 information, that is Call, Name, QTH (state), and 10-10 number. The next station will be called and that person will give their information and then stand by. We will proceed to the bottom of the list.

The procedure is then repeated from the top to bottom of the list, except you will call all stations that you heard and QSL their information. If you need a repeat on any information this is the time to ask for it. Once the last station is called they should have no calls to make because everyone has called them. I expect that this net should last no more than about 20 minutes.

Also, as you talk to local, (Connecticut), stations on 10 meters and also on the different bands please mention this QSO party and ask them to check 10 meters at times during the weekend to participate. Please remind them that if they are in the local ground wave area and members of 10-10, that The Castle Craig Chapter of 10-10 is their local chapter and we would appreciate their support for the QSO Parties. We've seen a few non MARC club members submitting their score for the chapter. We'd like to see more. Castle Craig usually finishes pretty well in the chapter standings. We'd like to do better.

If you have your collected 10-10 numbers sitting **now** is the time to send them in or go to the 10-10 web page at <http://www.ten-ten.org/memship.html> and either use the online shopping cart to join or fill out a paper application and mail it in. There is a special three year incentive plan for \$40.00 or you can join for the basic \$15.00 a year. 10-10 has a membership plan with electronic delivery of the 10-10 News and there are special rates for new and rejoining members of \$10.00 for one year and a three year incentive for \$25.00. It takes about three weeks to get your number back via mail but if you apply online your new number will come via email in just a few days. Remember you need to be a paid up member for your log to count for awards and also toward the club score. A good incentive for joining is that **ALL** 10-10 awards are FREE, and most if all do not require QSL cards and can be applied for via email. You will receive award certificates by return mail, (or), for many, you can ask for a PDF certificate to put in your computer or post on your web pages. For those members who are an OM/YL team there is a family membership rate. It is a good way for both to join and get in on the fun.

Even if you've decided that you are not interested in becoming a 10-10 member, you can still get on and give contacts out to those who are working the QSO Party. Your point will be welcomed. The 10 meter band is starting to wake up to the solar cycle and who knows what you may hear during the QSO Party. 10-10 was formed to keep 10 meter band active so that it is not lost to other services and that idea is still paramount in the organization's concepts.

Also, you can submit a log as a checklog if you are not a paid up 10-10 member, (though I stress this would be good time to take advantage of the 3 year incentive offer). And if you still decide that 10-10 is not your cup of tea but do get on and pass your information to others, you can also submit a log as a check log. The purpose of 10-10 is to keep the band active and your log is a good way to demonstrate band activity.

Please plan to attend and get the Winter 10-10 QSO Party off to a rousing start!

-73- AI - N1API

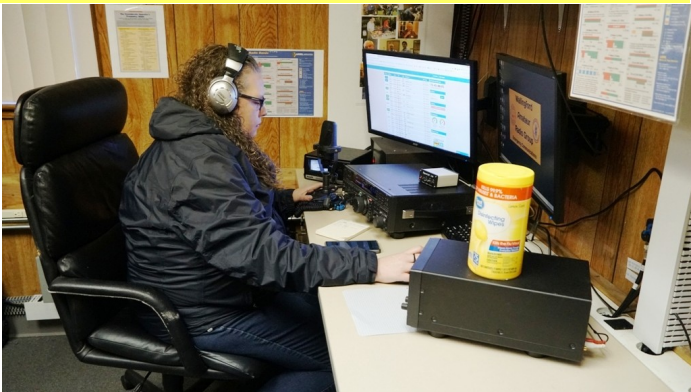
Castle Craig Chapter

Chapter Head and Certificate Manager

DEBBIE K1PET AND ANDY N1XXU INTALLING THEIR NEW DIAMOND DX VERTICAL ANTENNA SYSTEM AT THEIR HOME QTH.



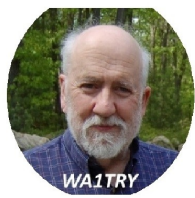
KRISTIN KC1IS AT THE OEM



JEFF N1AKN & VISITOR AT THE CQ SANTA



January Activity Meeting Intro



This is about the upcoming January activity meeting. As most of you know, we've been working with the MARC historical archives. Mostly taking what we have collected over the years in the form of photos, printed documents and a few videos and converting everything to a digital format. Many of the paper documents were very old articles cut from newspapers and were in pretty bad shape.

Fortunately almost all of them are now available via various Internet archival web sites and we have been downloading hundreds of them as we supplement our existing scanned originals with better quality PDF commercial scans. To that end we also have a few rare MARC related Videos. I have been working on those exclusively the past few months and we were able to bring two of the three existing videos back to life.

There has always been an interest in our past MARC Field Days so we decided to put on a presentation of photos and an old VHS tape of our 1990 Field Day and the result will be shown at this January's Activity meeting. It's called **"MARC Field Days - the First 42 Years"** We had two VHS tapes, for both 1990 and 91 Field Days. The 1990 tape was originally saved with a high grade Sony archival tape was surprisingly playable after being in storage for three decades. However it needed a little work to make it acceptable to be transferred to a digital format. Sadly the 1990 tape was on an inexpensive low quality generic VHS Cassette. I've been working with that on and off for a few months and is mostly un-recoverable. But there are a few segments I was able to pull out. That will be done sometime in the near future.

For this month's presentation we will have a movie comprised of a slide show of photos. Each decade of MARC Field Days from the 40-50s to 60s 70s 80s will be played and it will finish with a picture of the 1990 Field Day. That last picture will morph into the full motion video of the 1990 Field Day. Although the original source was a square frame VHS recorded format with a 4:3 aspect ratio it has been edited and converted to a wide screen 16:9 (with resultant black side bars) to allow it to be viewed on a PC monitor or TV. The resolution of the digital version is compatible to the DVD standard and can be used to author and burn a standard DVD. Keep in mind though; the original source of that video was an old camcorder.

In addition to the Field Days show, I will also be playing for the first time the newly digitized version of a film that was shot in 1948. It was produced as a 16mm silent (no audio) film around 1949. We are pretty sure of the film date which was taken by John Klocko in late 1948 or 49. But the actual production date was a little later, possibly at the end of 1949. In that film there some interesting shots of several MARC members from 1948 - 49 operating their 1940s era stations. The original 70 plus year old film was not in great shape. We have a VHS tape version and also a DVD disk version of that VHS tape that was made in the 1970s. Both of those are not at all good. They were done (we don't by who or where) back in the early 70s using the then available very low quality video transfer techniques. The resultant video was poorly cropped with much of the full screen missing to one side which completely ruined the display of the title screens. Also the rest of the video was off-set to one side and very poor quality. It was stored away unseen until recently when we started this club history project a couple years ago. After exhausting all means in an effort to resurrect and convert the original 16mm film myself, I decided to try and find a reputable company that could do a restoration of our film properly. The estimates I got ranged from "cheap" to "expensive" with the expensive ones more like "astronomical" in cost. The estimates for 9 minutes of 16mm film restoration ranged from 250 to 400 dollars!

The "cheaper" EBay based companies were suspiciously "cheap" as like 70 bucks or less. But as is true in this real world, you get what you pay for. The inexpensive jobs usually did a low quality optical video transfer, by using a film projector to project the film into a "box like" thing which had optics and a prism inside. The output of that "converter" was then fed to a digital camera that recorded the projectors video as it played. Those converter boxes can be bought for 20 bucks on ebay. They work but are of course a poor system, just barely suitable for home movies etc. During my search for a good but less expensive video conversion process I happened to come across some info I had stored from back in the 90s when I was running a computer service business. One of my business clients was running a restoration company that dealt with old photo, video and audio restorations. Well I found the company was still around. And I was able to work out a "deal" to get our old 16mm film digitized at a very reasonable price. Normally those high end companies do a complete restoration of the film. Very old films usually are specially cleaned. Often there are many poorly made "splices" where film clips are joined that causes jumps and jitters when being played back. Also portions of the film were made at different times with different exposures or lighting creating dark and light changes. And the film is usually not properly exposed and needs color correction done etc. That is why they charge so much. Many "repairs" need to be done before the film is finally converted.

I was able to negotiate a special deal. I only had the film physically repaired and cleaned and said I would do my own color correction, editing etc. No need to cut out or edit bad splices etc. I would do all the labor intensive editing. And they would do our conversion in a high res format suitable to be burned to one of the lower res 4K video codecs. Well you can't get better than that. And they did it correctly - by using a film processing machine that scanned each frame of the entire film, one frame at a time in a 1920 x 1024 resolution. Once I got the 9 minute mp4 hi res video back I then spent a month editing and fixing the scene changes, exposure, color correction and took out the frames where there were problems and re-compiled the whole thing with a sound track and captioned text etc. I also added an intro title screen and credit roll at the end. Keep in mind that this is a black and white old 16mm silent movie made almost 70 years ago and the original film quality was less than optimal. There were some scenes that were VERY dark and others lighter. I hope I have them sort of balanced out so the whole thing is enjoyable to view. Some of the scenes had an "over scan" where there was some garbage video in the topmost part of the video. I also cropped those segments to eliminate that.

I wrote this for our technically inclined members who might be interested to know how the old MARC videos were processed during this on-going old MARC movie restoration process. Consider it my gift to the club and I hope you get a kick out of seeing a few of the first members in their shacks prior to 1950, including three of the first officers elected in 1948.

73, Rich WA1TRY - MARC Historian.

FROM ERIC KB1EHE ON ARRL WORKING GROUPS.....

As I mentioned during the recent MARC hybrid / Zoom meeting, it is a great pleasure for me to be on the New England Division's "Mentoring and Ham Development and Youth Outreach" working group. During the meeting last night, I was given the okay to pass along some early tidbits. Here ya go:

* As will be announced in the January issue of QST, the ARRL is designating 2023 as the "Year of Volunteers". Every month, a volunteer will be spotlighted in the magazine.

* There will also be a year-long operating event called "Volunteers On The Air" or "VOTA" -- where hams will be given points for QSOs with various ham-related entities. It was emphasized that this is not a contest. Just a fun operating event. Points will be assigned to various entities -- including ARRL-affiliated-club call signs. You can find out more here: <http://www.arrl.org/volunteers-on-the-air> and here: <https://vota.arrl.org>.

* Our Guest Speaker last night was veteran ARRL staff member (since 1991) Bob Inderbitzen, NQ1R. He discussed VOTA as well as the many ways the ARRL is focusing on membership, mentors, and volunteering in general.

* We touched on a topic that I mentioned on the recent Zoom: The importance of inclusion and diversity for the long-term vitality of the amateur radio hobby. As we've seen from the unfortunate passing of recent MARC members, new energy has to come in from today's youth for our hobby to remain sustainable.

When I teach / mentor at universities around Connecticut, my spirit is buoyed by today's generation that is wonderfully oblivious to the superficial matters of race, religion, gender identity, origin, etc. I'm equally uplifted by their genuine love and concern for our planet. It's this unbridled, unvarnished energy that will serve our hobby well. The NE Div working group, and subsets thereof, is focused on tapping into this energy -- particularly via schools and scouting. If you'd like to join us on this mission, let me know.

73, Eric KB1EHE

Jeff, N1AKN and Dave, NZ1J show two antenna bases that are available for loan to club members. These are perfect for use in the field. The round base can be filled with water for weight and later be emptied for carrying and storage. The wooden base has an extended foot to allow the user to secure it by driving a vehicle tire onto it. Both bases can hold up to a two inch diameter mast.

The club has other equipment, including radios, that are available for loan to club members. In addition, advice is freely available at any time, just for the asking.

Ted KC1DOY



DAY	TIME (ET)	BAND	FREQ (MHz)	NCS	NAME	TYPE	WHEN
MONDAY	2000 – 2100	6M	50.175	N1ZN - JIM	6M NET	OPEN DISCUSSION	MONDAY
TUESDAY	1930 -2000	2M REPEATER	147.36 PL=162.2	K1TDO - TODD	2M NET	OPEN DISCUSSION	TUESDAY
	2000 – 2100	10M	28.375	K1VDF - JOHN	CASTLE CRAIG 10-10 INTL.	OPEN DISCUSSION	TUESDAY
WEDNESDAY	1900 – 2000	6M	50.175	VARIABLE	W1NRG OPEN DISCUSSION NET	OPEN DISCUSSION	WEDNESDAY
THURSDAY	1930 – 2030	2M and ZOOM	147.36 PL=162.2 *ID: 973 7062 5198 *Passcode: 889386	AB1DQ - JAMES	2M TECH NET	TECHNICAL/ LECTURE	1 ST & 3 RD THURSDAY
	1930 – 2100	-	ZOOM	W1YSM – ED	MARC BUSINESS MTG	BUSINESS MEETING	2 ND THURSDAY
	1930 – 2100	ZOOM	*ID: 925 1153 2783 *Passcode: 000377	W1YSM – ED	MARC ACTIVITIES MTG	TECHNICAL/ LECTURE	4 TH THURSDAY
FRIDAY	-	-	-	-	-	-	-
SATURDAY	0900 – 1000	2M REPEATER	147.36 PL=162.2	W1YSM – ED	COFFEE CUP NET	OPEN DISCUSSION	SATURDAY
	1100 - 1300	VARIABLE	VARIABLE	NZ1J – DAVID	FOX HUNT POTA/SOTA/OTA's	Tx Hunt Activations	SATURDAY
SUNDAY	1930 – 2030	ZOOM	*ID: 932 5667 9514 *Passcode: 686029	OPEN	ELMER'S SHACK	NEW HAM SUPPORT	SUNDAY
	OPEN SCHEDULE ~ 0800 – 1600	VARIABLE	VARIABLE	K1RCT- ROB	FIAB (FOX IN A BOX)	HIDDEN Tx Hunt	SUNDAY

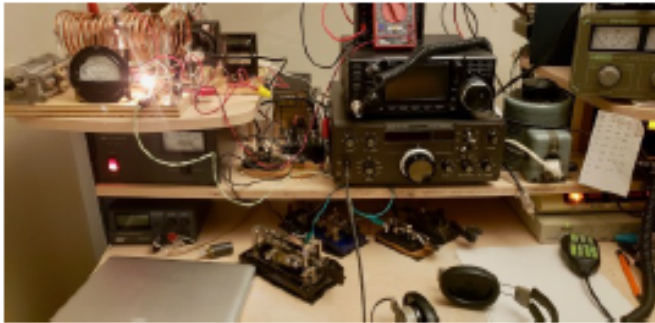
* values subject to change, see <http://www.w1nrg.com/website/index.html> for current values

7/4/21 Rev 6

Building Hartley 1929 CW Transmitters

By: Brian N1BRI

WARNING: If you are interested in constructing these transmitters, please exercise caution. They use potentially lethal voltages and currents. If you don't know, ask somebody who does for help.



Bob WB1GYZ's shack, featuring his 1929 Hartley transmitter



Brian N1BRI's 1929 Hartley transmitter on the bench

Bob WB1GYZ and I decided to take a stab at building a 1929 style transmitter for the [Antique Wireless Association's Bruce Kelley Memorial QSO Party](#). There are a number of requirements listed on the AWA's site, but the principal stipulation is that all parts should have been available to the average ham on or before 1929. So, on the off chance that anybody else would like to give it a go, we thought we'd document the process.

We spent a bit of time scouring the web for various schematics. Eventually, we found our way to [WA5BDU's website](#) and decided to base our design off of the schematic provided there.

Before we even started purchasing/scrounging parts for this endeavor, we needed to figure out what we were going to do about a power supply. We needed something that could output 150-250v! We ended up getting our hands on some transformers and building voltage doublers. Uncle Doug has an excellent [video](#) on his YouTube! channel detailing the theory and construction of a voltage doubler.

AGAIN, PLEASE EXERCISE EXTREME CAUTION IF YOU ARE THINKING OF BUILDING ONE OF THESE!

First we needed to wind the main coil and the antenna coupler. Everything we read seemed to indicate between 8 and 13 turns with a diameter anywhere between 1 3/4" and 2 1/2". WA5BDU has about 11 turns in the photo of his coil. I'm sure there is an optimal diameter and # of turns, and I'm sure it isn't what we have. As with most of this project, "good enough" suffices for a couple of building newbies. We used refrigeration copper tubing, easily found at Home Depot or Lowes. This stuff is pretty workable. Just find a good form (see Bob's salt container hihi), and take your time. We found it easiest to wind it tight and stretch it out uniformly over the form after we had the correct number of turns. For the antenna couplers I went with 6 turns of the same tubing and Bob WB1GYZ went with 3 turns of thinner copper wire. I suppose it is worth noting that the large copper tubing is not strictly necessary. It is really an aesthetic choice more than anything else.



Bob WB1GYZ winding away

We decided on the No. 27 Triode tube. This is the lower-end option for the transmitter. We found a lot of approximately 20 on ebay for under \$30.00. We were also able to find a huge lot of old higher voltage/wattage rated capacitors for about the same price. We both happened to have variable capacitors laying around. That left us with 1 resistor, an RF choke, and tube sockets to track down. A proper resistor can be found just about anywhere. My RF choke was homemade from an old glass jar and wire. We found the tube sockets on Amazon. We were ready to get busy.

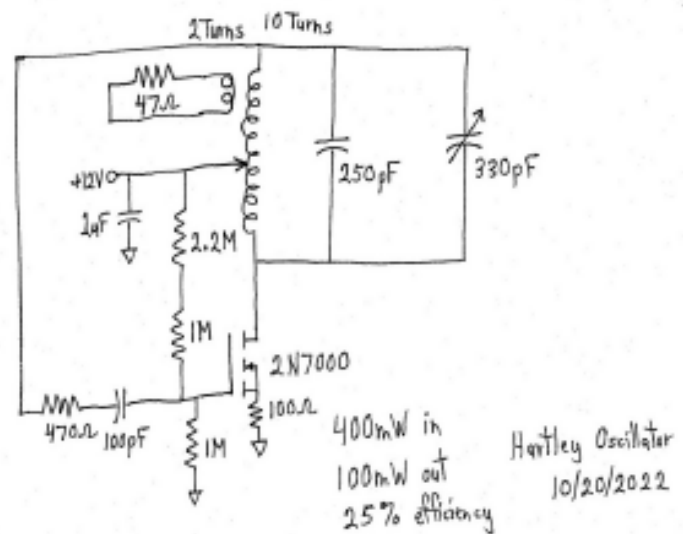


An RCA No. 227 (No 27. equivalent)

Our build process was largely driven by Dave NZ1J's transistorized Hartley oscillator. This definitely made everything a lot safer and easier. Firstly, it enabled us to tune our tank circuits at a low voltage. After that, it was essentially just replacing the contents of his oscillator with the parts we had purchased. A very special thanks to Dave NZ1J for lending his expertise on this project (and many others!)

The last thing to contend with was the antenna coupler. This was a trial and error affair. Finding the optimal distance from the main coil just came down to moving it around, asking others to listen for us, and checking db levels on the [reverse beacon network](#). Bob WB1GYZ and I both successfully participated in the Bruce Kelley Memorial QSO Party. We were able to work most of New England, New York, and even got out to Ohio and Canada. Not too shabby, considering we were working with maybe 2 watts of output (AT VERY BEST)!

Overall, this build was a blast. I learned a tremendous amount and got to make cw qsos with something I built! There is something about the warm glow of electron tubes that just appeals to me. Anyhow, I think every ham should experience radio of distant yesteryear--whooping, chirping, and drifting! It makes you appreciate the magic of modern transceivers.



Dave NZ1J's transistorized Hartley oscillator

Bob WB1GYZ and I will be working on another transmitter for next year's event. This time we're gonna try 40 meters and two tubes. If you are interested in joining in on the fun, just shoot us a line. For now, I think I'm gonna move on to transistors hihi!

73,
Brian N1BRI

Great Resources for This Project or Similar Projects

- [AWA @ groups.io](https://groups.io/g/awa)
- [VE7SL's page](#)
- tubebooks.org
- [tube data sheets](#)

EDITORS NOTE:

ADDITIONAL EQUIPMENT REQUIRED: CRAFTSMAN CIRCULAR SAW, BANDSAW, ROUTER, ETC....

MERIDEN AMATEUR RADIO CLUB

MEMBERSHIP ROSTER

AB1DQ	James Surprenant	23R	KC1OMP	Damian Fries	22S	N1YLN	Edward O'Lena	22R
AB1HB	Charlie Dudac	23S	KC1OSR	Gunnar Steinle	22R	N1YLO	Andy Fiertek	22R
K1BTR	Brian Ragaini	23	KC1OST	Bryon Heath	22R	N1ZN	Jim Savage	22S
K1DMS	David Stack	23S	KC1OWD	Kevin VanKeuren	23	N2RTS	Tyler Schroder	23R
K1JCF	Joe Farrell	23S	KC1OYN	Ricky Becker	22R	N2TAG	Dave Taglianetti	23R
K1LHO	Mike Ash	22S	KC1OYR	Brent Moyer	22R	NR1B	Bill Huggins	23S
K1LYP	John Yusza	23S	KC1PBQ	Randy Rivest	22R	NZ1J	Dave Tipping	22R
K1MMK	Mike MacKennedy	23R	KC1PEN	David Henry	22R	UT3UY	Anatoly Kirilenko	22R
K1MVM	Mike Macri	23S	KC1PHK	Lincoln Nichols	Y	W1AJK	Andrew Kazimer	22R
K1PET	Debbie Purchia	22R	KC1PSK	Todd Dibiasi	22R	W1BOB	Bob Lobley	22R
K1RCT	Rob Cichon	23R	KC1PSM	Elizabeth Van Nostrand	23	W1DQ	John Elengo	22S
K1SCI	Stuart Isaacs	22R	KC1PXX	Dave Alfredson	23R	W1EDX	Paul Stasieluk	22S
K1SOX	Brian Freeman	22R	KC1QHO	Mike Beaudry	22R	W1IKW	Ian K. White	22R
K1STM	Anne West	22S	KC1QLS	Ray Cirno	22S	W1BJG	Judy Wilkins	22R
K1TDO	Todd Olsen	22R	KC1QQV	Gary Getrost	22R	W1LV	Steve Morley	22R
K1TGX	Jerry Molaver	23S	KC1QQW	Randy Whitehouse	22R	W1POP	Fred Liedke	22S
K1MTD	Mary Duval	22S	KC1QWH	Steve Rygel	22R	W1PRK	James Procaccini	23S
K1VDF	John Blevins	23S	KC1RHB	Jared Martin	22R	W1RCI	Ron Isaac Jr.	22R
K1WJL	Dave Swedock	23S	KC1RLQ	Eric Barbour	23	W1RPN	Seth Kolasinski	22R
K4AVM	Andrew Olsson	22R	KC1RBY	Sergio Frutuoso	22R	W1TK	Ron Wakefield	22R
K0OZ	Brian Boccuzzi	22R	KC1TAD	Tom DiPinto	22R	W1UFO	Mike Cei	23R
KA1BED	Bill Green	23R	KC1PU	Bob Woodtke Jr.	22R	W1UKX	Greg Gherardi	22S
KA1KJV	Bob Trussell	22S	KC1SA	Stephen Allen	23S	W1YSM	Ed Snyder	22R
KB1EHE	Eric Knight	22R	KC2MLH	Adam Castracane	22R	W2OFR	Marc Dickson	22R
KB1HAX	Bill Reyor III	23R	KC3UKG	Storm Murrell	22R	W3APC	James Cook	23S
KB1IFZ	Elsie Mathews	22R	KE1AU	Robert Kaczor	22S	W90TW	Deb. Foss	22R
KB1JL	Eric Olsson	23S	KE1AY	Donald Mitchell	23S	WA1EXA	Mark Petruzzi	22S
KB1KTZ	Carl Fosse	23S	KR1U	Bob Eslinger	22S	WA1FFT	Ray Irwin	22S
KB1LWS	Jeanne Gherardi	22S	KO4EEL	Tom Williams	22S	WA1JKR	John Rogus	22S
KB1MFU	John Ramadei	22R	KX1USA	Rob Messercola	22R	WA1K	Jack Chapman	22R
KB1PZS	Robert Delgreco	23R	N1AKN	Jeff Dwyer	23S	WA1MAC	Paul Clark	23S
KB1TJD	Gainne Jenkins	22S	N1API	Al Kaiser	22S	WA1SFH	Douglas Sharafanowich	23S
KB1TMC	Clare O'Lena	22R	N1BF	Patrick Dionne	21R*	WA1TRY	Rich Aubin	L
KB1TTV	Jonathan Martin	26R	N1BRI	Brian Beegan	23R	WA1ZVY	Jim Martin	28S
KB1YFJ	Glen Couture	22S	N1BRL	Bart Toftness	24S	WB1CLT	Steve Duess	23S
KC1DOY	Ted Renzoni	23S	N1FNE	Rod Lane	23R	WB1DQT	Bill Bacon	22R
KC1GMD	Ralph Ring	22R	N1GNV	John Bartscherer	23S	WB1GYZ	Bob Biancur	22S
KC1HQX	Preston Byrne	22R	N1GY	Geoff Haines	25S	WB8IMY	Steve Ford	25R
KC1ISI	Kristin Olsson	22R	N1HCA	Susan South	22R	WJ1B	Harold Kramer	22S
KC1KQH	John Kasinskas	22S	N1IBE	Wade Martell	22S	WV2LKM	Steve Waldmann	22S
KC1MEB	Bean LeFebvre	23R	N1JEO	Joel Curneal	22R	WY1U	Tim Mik	22R
KC1MJZ	Michael Berube	22R	N1JMX	Jeff Martin	28R	Ex KB1HEA	Loreen Heavens.....	22R
KC1NLE	Jose Rodriguez	22R	N1LES	Joe Murray	22R		Greg Ravizza	22S
KC1NQE	Shawn Warren	22R	N1MOB	Dan David	22R		Spencer Rygiel.....	Y
KC1NRD	John Lujic	22S	N1OKF	Bob Parisi	22R		Dave Devito.....	23R
KC1NXP	Andrew Paolillo	22R	N1OKR	Frank Ciccone	23S			
KC1OCF	Karl Polak	22S	N1QYB	William Wilecki Jr.	22S			
KC1OCS	Richard DeWick	23S	N1XXU	Andy Purchia	22R			
KC1OGL	Paul Randazzo	22R						