



Capers

October - 2017

**Candlewood Amateur Radio Association
P.O. Box 741 – Hawleyville, CT 06440-0741**

Visit us on the Web at <http://www.CaraRadioClub.org>

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**CAPERS is the MONTHLY NEWSLETTER of the
Candlewood Amateur Radio Association
Editor: Dan Fegley, W1QK**

***Next CARA Meeting: Friday, October 13,
Stony Hill Fire Station***

Doors open at 7:30 for socializing and conversation. Meeting begins at 8:00 p.m.

Proposed Agenda topics:

- ***Pledge of Allegiance & introductions***
- ***Reading of Minutes for Approval – N1GSA***
- ***Treasurer's report – WX1T***
- ***Webmaster's Report – KD1YV***
- ***Repeater Committee and Cleanup Organization - KB1YHW***
- ***Report from New Fairfield Day N1F Special Event station - W1JGM***
- ***New Business & announcements***
- ***Presentation – Fox Hunt University by N2KZ***

President's Message - de AB1WV



Photo Credit: KB1YHW

Hello all,

It's that time again. Leaves are falling with a chill in the air, football is in full swing, the boys of October are starting their runs for the world series. What does this mean?

It means that amateur radio contest season is just around the corner. I have made it a goal of mine to participate in contests more this year. I have done a few upgrades to my station, and I have been doing some practicing of my CW and contest skills over the past few months. I hope it will translate into a couple of things. First off - I think actual participation will help improve my skills faster. I also would like to increase the number of contacts I have and work more toward my DXCC. I hope all of you can make time to participate in some of the many contests going on. A great place to start is to participate in the many state and regional QSO parties. In my experience, they are laid back and easy to participate in.

Some of our members participated in New Fairfield days again, and put a great face on our hobby and club. I can't wait to hear about it at our next meeting.

Also at our meeting, we will have a great presentation on foxhunting. I have been curious about foxhunting for some time and I look forward to it. Hints have been made at a possible project session at some date afterward to build "tape measure antennas" that can be used in foxhunting as well as other applications such as satellite operations or just having a handy 2m beam at your QTH. I can hardly wait for the info on this.

I hope to see you all at our next meeting.

--... ..--
Marcus
AB1WV

**Vice-President's Message
de N1NRP**

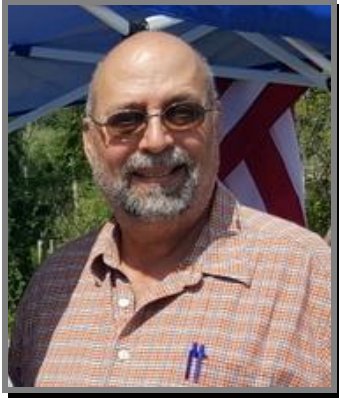


Photo Credit: KB1YHW

Hello fellow club members and friends of CARA:

As I write this message in early October, it's 80 degrees outside. I think we're experiencing the best Indian Summer ever.

Just a quick reminder that on October 22nd at 12 noon, CARA will be holding the first Annual N1GSA Race Day at On Track Carting in Brookfield. Don't be afraid. If Tom, WX1T can do it, you all can too. (Just kidding Tom). It will be loads of fun.

So, club members - old and new- bring your kids, your grandkids or your spouse/ significant other. Please E-mail me at JJAlbano@aol.com and advise me who will be joining you so I can update our reservation.

After racing, we'll gather at Jersey Mike's on Federal Road in Brookfield – right across from COSTO, to enjoy their award-winning grinders. Some people call them hoagies, wedges, or subs. Whatever you call them, they're GOOD and fresh.

I was thinking of organizing a fox hunt soon. Marlon, KC1EHW, and I participated in one recently in Westchester County with the WECA

club, and another with the PCARA club in Peekskill NY.

We're getting pretty good at finding the fox – and without any sophisticated direction-finding equipment. I'll let you know the time and place.

Also, if there's enough interest, we'll be holding a fox hunting tape-measure Yagi building session.

I'm saddened by the news of the loss of George Politzi, K2ZZ (SK), a good friend and long-time CARA member.

RIP my friend. Life is short; and let's all make the best of it while we can.

I hope to see you at this month's meeting.

73 - Jay, N1NRP



**September 8 - CARA Meeting
Minutes
de N1GSA**

The meeting was called to order by Pres. Marcus Swearingen at 8 PM.

The Pledge of Allegiance was recited.

Secretary's Report was read and accepted with the change of the date for New Fairfield Day and the Version # of the new website software.

There was no Treasurer's Report.

Jim gave an update on the website change which is NOT compatible with our existing software. He is looking into new software for this purpose.

The ARRL website has been hacked and was giving trouble for a bit. This should be resolved shortly.

John was wondering about his inability to receive a confirmation of updates to the reflector.

Gregory gave an update on the Repeaters. The Yeasu machine has been working fine with strong signal reports from both the North and West. There are still some weak spots toward New Fairfield and Roxbury. The phasing line for the folded fan dipole is in need of serious repair or replacement. The operating temperatures in the container on Spruce Mountain, during the summer, can reach upwards of 140 degrees. The DMR interference that we had been experiencing seems to be gone. Our UHF repeater is operating perfectly with a full 50-watt output. Gregory spoke with Kevin Magloughlin, who has been out of town on business for the last month. Kevin will get the needed parts to us.

The Motorola machine seems to have a problem with the heat sinks overheating. This has been temporarily fixed with the installation of a small pancake fan blowing on them. Kevin has a larger power supply that will fit in the cabinet of our machine and should eliminate this problem with plenty of capacity to spare.

The 6-meter system still needs to be updated. The Duplexers are probably the problem with the reception problems. There are possibly a pair of Duplexers available for purchase along with tuning to our existing frequencies.

The area around the container still needs to have a major work party to clear the overgrowth.

Gregory suggested that it may be time to place the Motorola back on the mountain and remove the UHF system at that time.

John gave an update on New Fairfield Day. We should probably get there at about 8:30am to setup.

John has purchased a 10x10 popup awning and asked if the club would like to purchase this to be placed with club property. Motion made and seconded to purchase. Discussion followed. Vote passed.

Harlan reported on the US Islands on the Air event with a nice PowerPoint presentation. All who participated had a good time and were explained Amateur Radio to a few folks who stopped by to see what was going on.

John gave a preliminary report on the success of our Hamfest. He brought up the point of a critique session at the next planning meeting. The Town Hall staff was very late in opening the building. We used wristbands instead of a hand stamp this year, which worked very well. The Town Hall refunded our fee due to the opening mix-up. At this point it looks as though we realized a profit of \$1980.16. Last year, we only realized just over \$1000. It was a very successful event. John was commended on his hard work in coordinating this event.

Jay brought up about a fun event, to go to On Track Carting for an afternoon of fun. This would be open to families and friends. The cost is \$17 for 2 races each. This will be on October 22 at 12 noon.

Harlan spoke on using the club tripod and invited anyone needing this to contact him as to availability.

John made a motion to spend up to \$200 for 2 banners one with the club name and logos and the other to promote our sponsors. (Danbury EOC, etc.) Motion made to amend this to make this one sign and one poster not to exceed \$200. Motion passed. Original motion passed as amended.

Meeting Adjourned at 9:40
Respectfully Submitted
Gary S. Adams N1GSA
Secretary

Fox Hunt University ENCORE:

By request, The Candlewood Amateur Radio Association will host the second performance of Fox Hunt University.

Please join us at The Stony Hill Fire House, 59 Stony Hill Road, Bethel, Connecticut 06801 on Friday evening October 13th, 2017.

Doors open at 7:30 pm and the CARA monthly meeting will begin at 8 pm.

Presenter will be PCARA's Karl N2KZ. ALL WELCOME!

For more information on CARA: <http://www.cararadioclub.org>.



CARA Family Race Day Planned for October:

de N1NRP
Greetings CARA members:

All members and their families are invited to come to On Track Carting in Brookfield, CT, for what I'm calling the N1GSA Race Day on Sunday, October 22nd @12:00 noon.

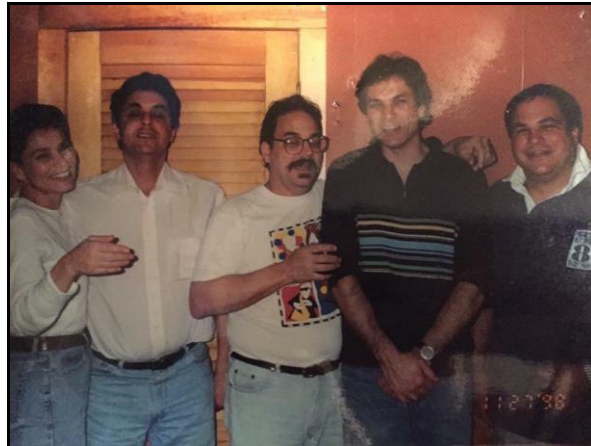


It's going to be great fun. Bring your family, children and grandchildren. Please respond to CARA VP – Jay Albano, so he can get a head count for the group.

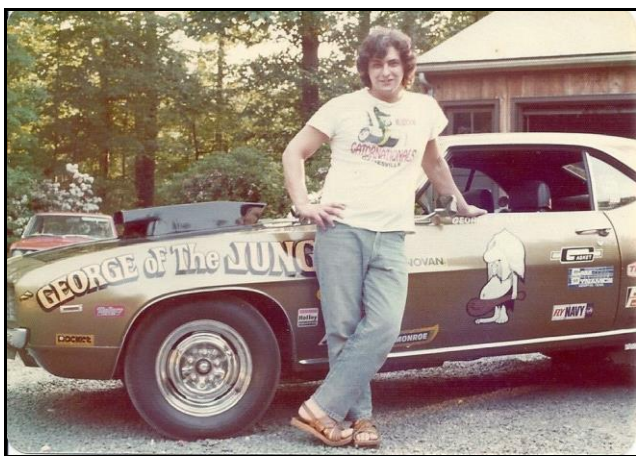


It will be about \$17.00 + \$2.00 for your helmet liner for one race, which lasts about 10-15 minutes. Two races will be \$34.00. After the racing, we'll gather at Jersey Mike's on Federal Road, just across from COSTCO, for sandwiches and conversation.

IN MEMORY OF CARA MEMBER –
GEORGE POLITZI, K2ZZ



The Politzi children (1998): Helena, George, Paul, Victor, & Matthew.



George's 427c.i., '69 Camaro – Trophy and bracket racer at Dover Dragstrip in Wingdale, NY



WB1DIP, AF1U, now N1GS with WB2THN (KC2QF, K2ZZ) at the United Nations 4U1UN station in NYC in 1979

Remarks at the Funeral Service on September 28 by Angela Politzi, KD2KPH - Paul's daughter and George's niece:

Welcome friends and family and thank you for coming. Today we are here to remember our beloved brother, uncle, and friend George, K2ZZ.

While it has been a heartbreaking time for all of us, I have been able to find a sense of comfort in all of the kind words I have heard in remembrance of George. Regardless of whether people knew him from back in the days he worked at Scott's Corner Market, have been lifelong family friends, fellow HAMs, or only know him from seeing him at the occasional radio flea market, it seemed everyone had the same thing to say. "He was a great guy, a great friend, he was always happy, always smiling, and always having a good time. And oh, he was such a character!". And that he was.

He was definitely one of a kind. His mother called him "the true Gemini". Uncle George was very set in his ways, but he had a heart of gold and was always more than willing to lend a helping hand. George was a very easy-going and simple man. He didn't sweat the small things in life, and he didn't search for happiness in material things. He found what he liked to do, made his routine and stuck with it, and

he didn't ask for much more than that. With Uncle George, what you saw was what you got.

Uncle George was a class-act businessman. He was the owner of Radio Oasis for many years. He handcrafted all of his products with care directly from his home. And again, all of his customers seemed to have the same thing to say about him: great quality product, great price, and a great salesman. His vendors enjoyed working with him and were working on business plans for the future. His friend Bob Arenella, who provided regular help, told us that he had never worked for such a great guy before - that he made work fun, and that he always looked forward to working with Uncle George.



It was no secret that George's favorite hobby was HAM radio. He started as just a kid, about 13 years old, when he and his sister Helena rode the train into New York City so he could take his first radio test. Throughout his whole life, he never stopped pursuing that hobby. He made some of his best friends, and had many accomplishments through the medium of HAM radio. These accomplishments included being on #1 Honor Roll, which is contacting all active countries, including North Korea. He also made contact with King Hussien of Jordan. Uncle George liked to tell that story as "the King called me!"



While we are sad because we feel that this was too early for him to go, we can be grateful that he was fortunate enough to slip away peacefully in the comfort of his own home. He did not spend his last years fighting through illness, he spent it doing some of his favorite things: building antennas, taking naps in his chair, going out to eat with friends and the local HAMS, attending HAM radio shows, spending time with family, and making his daily Dunkin Donuts coffee run. These all were things that made him happy.

He will not be alone, for his mother and father will be waiting for him with open arms. And today, we will bring him joy as we gather to show him how much of an impact he has had on our lives, how much he was loved, and how much he will be missed. While today will be tough for all of us, George, being the incredibly unselfish person, he was, would want us to be able to laugh and smile as we remember the good times that we shared with him. Today, we show him that we will always remember him fondly, as our uncle, our brother, our friend. Uncle George, may you rest in peace.

Remarks by WAIJGA, read at the Celebration of George's life on Thursday, September 28:

George Politzi
K2ZZ (K2 Zed Zed)

My name is Dave Coelho, I am also a Ham Radio Operator. I am unable to be here for the Funeral Service for my friend George, but I wanted to say a few words about him.

I first met George through our local Ham Radio Club, called the Candlewood Amateur Radio Association, which is located in the Danbury, CT area.



George would be at meetings and talk about antennas, George would be at local and statewide "Hamfests" and talk about antennas. Not only did he talk about antennas, but he was great at making the antennas as well. He would sell his antennas under his business called "Radio Oasis" - And while many other businesses would sell his antennas, if George was at a Hamfest, George would always protect his vendors by offering advice only, and then he would direct a prospective buyer to one of his vendors for the actual sale. George was a class guy.

About 4 years ago, I purchased a "G5RV" antenna, made by George, and I put it up in the air between trees and it worked well. After about 3 years, one of the copper antenna spans broke and the antenna came down. I contacted

George about my "broken wing", to see if I could purchase some stranded copper wire from him, to replace the broken wing. He sent me the wire in the mail free of charge. I immediately sent him a check for the copper wire and postage. He never asked for it, but I knew that I did not want to take advantage of George's friendship.

I always looked forward in working together with George and Dan Fegley, in the CW (Morse code) Contest Van, during the annual Field Day event for ham radio operators. Field Day is a two-day event for hams to test their emergency radio skills.



Working alongside George was a lot of fun. We shared funny stories, and George had a great wit about himself, and with his dry humor, so the time spent with him doing the radio schedule, went by quickly. I remember one Field Day evening, a new ham, 14-year-old Russell Huizinga, came to the radio van and told George & I that he recently joined the club and he just passed his Amateur Radio Extra exam! I was dumbfounded, and turned to George and said "what?????" That night I decided that I had to upgrade my radio license from General to Extra. George told me that I had to study the exam material on a program called "QRZ.com" I never heard of it. So, I purchased some of the standard publications that are out there for license upgrading.



Well at the ARRL National Convention, I took the Extra exam twice and failed. I felt like a Zombie. George was at that Convention, and again he told me to study with the QRZed program. I didn't listen at first, and I took the exam another 2 times and failed. Finally, I took George's advice, and studied with QRZ.com. On the fifth try, I took the exam and finally passed and obtained my Extra Class license. Needless to say, George was among my radio club friends who I called to say "I passed!!!!" And Yes, I thanked him for his good advice too!

On Sept. 9th, Russell Huizinga and I, drove up to Boxborough, MA, to attend the New England Hamfest. George was there in his "Radio Oasis" booth, talking about antennas...of course. While I was there I observed the generosity of George once again. A young ham, purchased an antenna from him. George discounted the price for this young ham. Then I noticed an older gentleman came up to George to give him some additional money, that he originally did not have. George would not take the money. He said "no, you keep the extra money, I sold it to you for the money that you had, and a deal is a deal...just get the antenna up, and have fun"- That's the George that we all have come to know, over the years.

Every time I saw George, I would say, or he would say, "hey, have you seen Louie" (Lou Parascondola) also another ham operator from the area, that we are mutual friends with.

George never forgot his friends, and today, let us say a prayer for George and his family, and may we never forget his friendship.

How lucky we were to have known him!

David M. Coelho - WA1JGA, Danbury, CT

Remarks by WIQK:

I met Lou on the air, then WA1GSO - and now WIQJ - even before I moved to Connecticut.

We've known each other for a very long time. Of course - meeting Lou, meant that I met George too.

In those days, he was WB2THN, then KC2QF, then eventually became K2ZZ.

Ham callsigns are as important as your name, and George was sometimes confused with K1ZZ, Dave Sumner, who was with the ARRL for years. But George was also well known in the ranks of active contesters and DXers.

George achieved many accomplishments in Amateur Radio, and one of his proudest was wearing his #1 DXCC Honor Roll pin. I'm sure he had it fastened to his Radio Oasis shirt at every hamfest that he attended.



George, K2ZZ (Radio Oasis), supplied all the wire antennas that were used by the WRTC 2014 competitors.



George's brother Paul – proudly wearing K2ZZ's #1 DXCC Honor Roll Pin at the Celebration of George's life.

Just last year, he was almost the last operator standing during the DXCC Country roll call at the ARRL Boxboro Convention DX dinner. I believe the only person with more countries confirmed was Joe Reisert, W1JR.



K2ZZ at the 2017 ARRL Boxboro Convention

George was a proficient CW operator – often taking the overnight shift at the Candlewood Amateur Radio Association's Field Day - for many years. He enjoyed operating CW with me and fellow CARA member and long-time buddy, Dave Coelho, WA1JGA.

George and Lou also operated portable VHF contests with me. We consistently finished in the Top Ten nationwide in the Limited Multi-Operator Category.

George also knew my nephew, Peter, KA1SYG, very well and guided him along.

When ARRL President Rick Roderick, K5UR, delivered the keynote address at the ARRL Centennial Convention in 2014, his message was about leaving a “Legacy” for the future of Amateur Radio.

“The Amateur Radio community is unique. Anywhere in the world we hams go, there's an instant friendship regardless of your background, religious beliefs, or what country you're from. It doesn't matter – Hams all over the world welcome other hams.”

Rick's remarks included all the attributes that George exhibited: A courteous, talented, and precise operator, an Elmer who's willing to help the Newbie, and someone who cared deeply about the future of our hobby and the world.

George was a dependable friend, and an honest businessman.

George was an authentic person who will be missed by those in this room, throughout our country, and around the world.

George contributed in so many ways to ensure that he left **his** Legacy to Amateur Radio.

I'll always remember his hearty laugh, big smile, and his greeting of “Uncle Dan” when we met.

K2ZZ this is W1QK – 73, Rest in Peace my good friend.

ARRL Boxboro New England Division Convention – 2017



WF1K, W1QK, WA1JGA meet up at the Flea Market on Saturday afternoon.



Boxboro Flea Market – 7:30 am Saturday





NG1R, K2ZZ, & W8ZY taking a break from the Boxboro fun.



The famous 75M AM (Yaaaaaa – M) operator, TimTron – WA1HLR (WA1H yeL- R), and Russell – WF1K finally meet for an eye-ball QSO!

Photo Credit: WF1K



Special display of Enigma Cipher Machines:

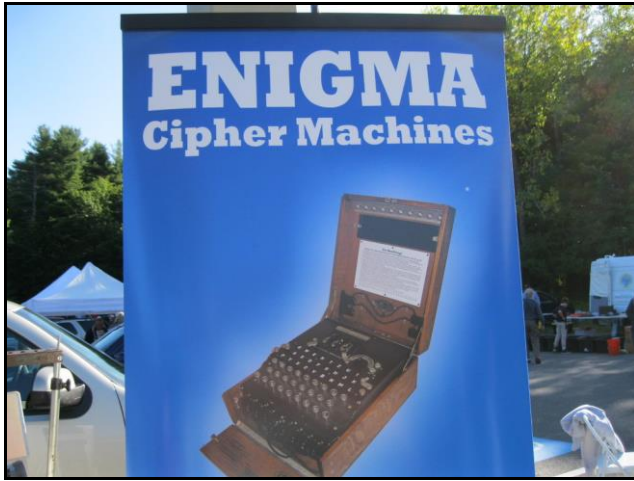


Photo Credit: W1QK



Connecticut Phone Net – CPN

Meets daily: M-F 6:00 p.m. 3.973 MHz.

Sunday: 10:00 a.m. 3.965 MHz.

CARA Contributions:

Wednesday Net control: Harlan, W1QH

Net Manager: Tom, WX1T



Weekly Sunday CARA NETS:

CARA 10M “Rag Chew Net”:

28.490 MHz. 7:00 pm Sunday

CARA 2M NET:

W1QI Repeater – 7:30 pm Sunday

CARA PSK Digital NET:

28.100 MHz. 7:00 pm Tuesday

**Worked All Connecticut Counties Award,
WACC – Sponsored by CARA:**

<http://www.cararadioclub.org/activities>

**Upcoming Contests, Hamfests &
Meetings:**

Oct. 7-8: CA QSO Party

Oct. 7-8: Warren Woods Fall Festival. W1W
Special Event Station; NARA
EmComm Vehicle and display.

Oct. 9: ARES Region 5 South Meeting –
Danbury EOC

Oct. 14: PA QSO Party, AZ QSO
Party

Oct. 14: ARRLARES CT Section SET -
Simulated Emergency Test, 8am-1pm.

Oct. 14: Boy Scouts of America (BSA)
Jamboree On The Air (JOTA) at Camp
Strang in Goshen.

Oct. 21: NYQSO Party

Oct. 22: YCCC Meeting – Sturbridge, MA

Oct. 22: Nutmeg Hamfest and ARRL CT Section
Convention – Meriden, CT

Oct. 28: CQWW DX – SSB Contest

Oct. 11, 18, 25; CWT 1300Z, 1900Z, 0300Z

Oct. 30: ARES Region 5 Meeting

New England and other local hamfests:

<http://web.mit.edu/w1gsl/Public/ne-fleas>

Complete Contest calendar at:

<http://www.hornucopia.com/contestcal/contestcal.html>

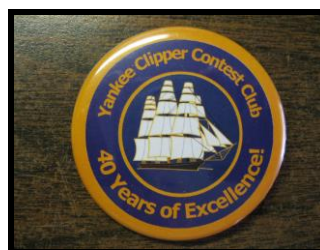
Upcoming CARA Calendar:

Oct. 13: CARA meeting - doors open at 7:30

Oct. 22: CARA Family Race Day

Oct. 27: Monthly CARA planning meeting –
SHFD – Begins at 8:00 pm

Nov. 1: November Capers input deadline



YCCC News

The next scheduled meeting of the Yankee Clipper
Contest Club will be October 22 in Sturbridge, MA.



Connecticut ARES Region 5 conducts a weekly net
each Wednesday at 7:30 p.m.

New Milford: 146.730 MHz -600 kHz PL 192.8 Hz
NARA analog repeaters for this net:

Washington: 441.850 MHz +5 MHz PL 77 Hz

Woodbury: 444.800 +5 MHz PL 192.8 Hz

Warren: 53.970 MHz –1 MHz PL 110.9 Hz

Please check in – All are welcome.

CARA Supports New Fairfield Day with N1F Operation – September 16

de W1QK, W1JGM & W1QH

Photo Credits: W1JGM, W1QH, WX1T, Ken Chapman.

Drone photos courtesy of Chris Garner

The Fifth New Fairfield Day celebration was held once again in the center of town on September 16. CARA participated for the third year by setting up and operating Special Events station – N1F.

N1F – Special Events Station for New Fairfield Day – 2017



The station was assembled in the same area just to the South of Veteran’s Green, and adjacent to the Olde 37 Café and Grill.

The station equipment consisted of the CARA Fiberglass Mast systems with a 40M/20M Skeleton Sleeve and a 20M dipole – both set up as inverted vees.



This CARA event was organized again by John-W1JGM. CARA participants included: Harlan-W1QH, Tom-WX1T, David-KB1ZAC, Gary-N1GSA, Eric-KC1EDE, and Gerard-KC1HPF.

Radios used were the IC-7300 in W1QH’s Go-Kit and W1JGM’s IC-701.



(L-R) N1F Operators: David - KB1ZAC on 20M SSB, and John - W1JGM on 40M SSB

Photo Credit: WX1T



In addition to CARA's two portable stations, the DEMAS Region 5 MCV (Mobile Communications Vehicle) was also on display. CARA member, Oscar Fuller - KO1F was on hand for demonstrations and explanations of the MCV's capabilities.



WX1T operating 20M SSB



WIJGM: "Our most memorable moment was making several contacts with the State of Washington, while guests were asking how far we can talk on a wire."



NARA participates in New Milford Fire Safety Day

de KB1YHW

Photo Credit – KB1YHW
Bernie Meehan – Danbury FD



The Northville Amateur Radio Association, NARA, was pleased to assist with a simulated "Dial 911" educational exhibit at the 10th Annual Fire Safety Day presentation, held on October 1 at the New Milford Home Depot Parking lot from 8am to 1 pm.



The Fire Safety Day presentation by New Milford Public Safety officials was a sanctioned event, and the Town of New Milford-owned, NARA operated Communications Bus played a useful part in a simulated "Dial 911" the demonstration.



Visitors with Steve – KC1EEQ

Thank you KB1ABC for offering the use of a programmed telephone switch and telephones to be used for the demonstration.



Jim - KB1ABC

NARA provided a seat in the NARA bus for the New Milford dispatch person to answer the simulated 911 emergency calls.



New Milford public safety officials coordinated access to the simulated "Dial 911" demonstrations.

Photographs of various scenarios, selected and controlled by the New Milford Dispatcher on the NARA bus, provided the "Dial 911" caller with a simulated scene to describe to the 911 call dispatcher.



911 Demonstration – KC1EEQ

The PowerPoint slide show provided 8 photos of emergency situations:

1. Kitchen Fire
2. Bicycle Accident
3. Wires Down
4. Bedroom Fire
5. Basement Flood
6. Ladder Fall
7. Car Fire
8. Heart Attack



(L-R) Mike – N1MPL and Jim – KB1ABC

NARA additionally provided a 10' x 10' canopy with table, chairs, computer, and video display, along with the "Dial 911" emergency telephones.



NARA was pleased to participate in this very popular event.

Gregory G. Davis KB1YHW
NARA president 2014-17

The Vintage Radio & Communications Museum of Connecticut - Windsor, CT

A quick stop by W1QK and NG1R on the way to Boxboro...

W1QK: "From telegraphy to television – all in one place".



115 Pierson Lane, Windsor, CT

Visitor Information at:

<http://www.vrcmct.org/visitor-information.html>

Take a virtual tour at:

<http://www.vrcmct.org/exhibits.html>













**Vintage GATES AM Broadcast
Transmitter Restoration at ARRL
HQ Laboratory**
de W1QK

*A brief visit with Bob Allison, WB1GCM by
W1QK and NG1R on the way to Boxboro...*



Bob Allison, WB1GCM

Product Review Engineer

Areas of expertise: Product Review testing, Vintage Radios, AM Operating, Digital Modes, Ham Radio History, Servicing Equipment, Teaching, Kit Building, Contesting, Public Speaking, and rag-chewing!



Photo Credit: W1QK



Bob explained how this vintage 50's Gates BC1T KW AM broadcast transmitter was given to the ARRL, and restored by Dan Thomas - NC1J, at the Vintage Radio and Communications Museum of Connecticut, where both are quite active and involved.

Next month's CARA Capers will include the complete story of how it was refurbished and will be used at W1AW on 75M AM operation.



Many thanks to Bob for his time to tell to us about this project. A link to the video interview with Bob will also be included.



A pair of 833's modulating a pair of 833's in the power amplifier. These tubes make an awesome amber glow when in operation. Ahhh – those good 'ole days of tube-based AM broadcast transmitters.



CARA is an ARRL Affiliated Club



NEWS, PRESS RELEASES, AND GENERAL INTEREST

Reminder: Beginning with the recent ARRL September VHF Contest, log deadlines are shorter for the majority of ARRL Contests. In summary, ARRL VHF Contests now have a 10-day log deadline - and starting with November Sweepstakes, ARRL HF Contests now have a 5-day log deadline.

Reminder part deux: If your club participates in the [ARRL Contest Club Competition](#), remind the club member taking care of the details that if they haven't done so, it's time to [review the membership eligibility lists](#) for the 2017-2018 contest season. This must be done BEFORE the first point-qualifying contest, ARRL Sweepstakes, otherwise sadness may ensue: "club results will be calculated based on only the eligible members that you file in your eligibility list uploads before the contest begins." No Mulligans on this one: see the September QST article on "[ARRL Contest Changes for the 2017-2018 Season](#)" (PDF) or the [web page](#) for the details.

TECHNICAL TOPICS AND INFORMATION

Using N1MM Logger+ in a multi-operator scenario allowing multiple stations on the same band is a rare configuration most commonly found during DXpeditions or 'unlimited' type distributed operations. The N1MM Logger+ feature of automatic switching between Run and S&P can get in your way in these instances, but you can toggle it on and off with the Alt-F11 [function key](#).

With new digital modes changing faster than log file standards and formats, you may need to generate one log file for contest submission and then a different one for upload to LOTW. Here's an example: You're using FT8 for some VHF contacts in the September ARRL VHF Contest. The Cabrillo file format for contest submissions doesn't support 'FT8' as a mode, so the mode of 'RY' or 'PH' should be used. In the VHF Contest, only one contact per station per band counts, regardless of mode. Don't use 'FM', since there's an 'FM-only' category for that contest. FT8 as a mode **is supported** by the ADIF standard, and by LOTW, so make sure your FT8 contacts are uploaded as FT8 mode to LOTW.

Beep, Beep, Beep, Sold! A vintage full-scale test version of Russia's 1950's Sputnik satellite [sold for \\$847,000 last week](#). If you're looking for a modern beacon transmitter you can use on the Amateur bands, including the new ones at 2200 and 630 meters, check out [QRP Labs' Ultimate3S kit](#). Some people have [flown the Ultimate3S to over 6 miles height and around the world](#) using high-altitude balloons. (Dennis, N6KI)

CONVERSATION

Bend, Don't Break

CW, SSB, CW Keyers, Computers, Logging Programs, Packet Spots, and Skimmers all have at least one thing in common: At the time of their introduction, for some, they all spelled "the end of Amateur Radio." JT65 and FT8 have become the latest whipping boys. Complaints I've heard related to HF use range from "there's nobody on CW or SSB anymore" and "everyone's switched to FT8!" to "the digital segment is already too FULL of FT8 signals, what are we going to do when there are too many signals?" From some VHFers: "there's nobody on CW or SSB anymore" to "The HF people have ruined WSJT-X" to "People weren't sending the right thing using those modes during the contest." Maybe this is why we can't have nice things.

Like the introductions of all of the other tools that we've survived, we're all learning what these digital modes are good for, when they're best used, and where and how to best use them. The tools themselves are still evolving, and we have to reevaluate the What, When, Where, and How at each release. It may look easy to make contacts, but it's obvious from some complaints that there's still operator skill involved in completing contacts in these modes. In the past we learned how to deal with QLF, off-frequency SSB, bad packet spots, and the like... we'll learn the proclivities of these modes. We'll complete some contacts with some of those new callsigns we haven't seen before, we'll learn from each other. We'll adopt these digital tools, we'll adapt our operating techniques to use them. We shouldn't feel threatened by change or new tools -- the real enemies of our hobby are stagnation and irrelevance.

That's all for this time. Remember to send contesting related stories, book reviews,

tips, techniques, press releases, errata, schematics, club information, pictures, stories, blog links, and predictions to contest-update@arrl.org

73, Brian N9ADG

Thanks to the ARRL:

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CARA used N1MM+ Contest Logger during the ARRL 2017 Field Day.

For a free download, visit:

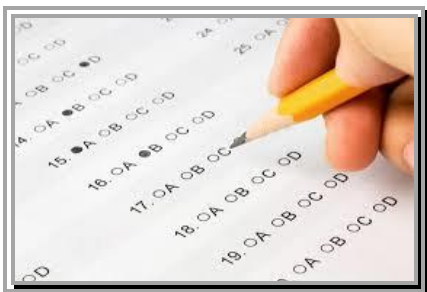
<https://n1mm.hamdocs.com/tiki-index.php>

CT Section Manager's Message:

October, 2017

No CT SM message available.

2017 CARA Ham Exam Schedule:



2017 Amateur radio exams sponsored by CARA at the Stony Hill FD:

December 2

Saturdays - starting at 11:30 a.m.

Walk-ins are welcome, but it's helpful if candidates call or e-mail Frank Sileo, N1PE, at 203-438-0218, or send a message to [frsileo @ att.net](mailto:frsileo@att.net)

Other upcoming VE exam sessions:

Washington CT firehouse on Bee Brook Road at 9 AM Saturday morning on the following dates:
Oct. 14

Please feel free to direct questions to w8zy@hotmail.com

Walk-ins are welcome and we will be testing for all classes.

Sponsor: Northwest Amt

Location: Litchfield Firehouse, Litchfield, CT

Time: 7:00 PM (Walk-ins allowed)

Oct. 10, Nov. 14, Dec. 12.



CW Ops CW Academy:

Interested in learning CW or improving your skills?

Check out www.cwops.org

"CW is an art of incremental improvements over a lifetime, getting ever closer to an ideal of perfection which is always moving and always presents a new horizon to strive for." Carlo Consoli

CWops "CWT" Every Wednesday Regular Tests:
Full Speed Start: 13Z, 19Z, 03Z (+1), 1-hour each session
Exchange: name/number (members)
name/SPC (non-members) Avoid DX pileups!

CWops CW Practice Sessions:

For: On-air practice at 13+ wpm for CWA students, graduates, others wishing to have real-time CW practice with others similarly afflicted with a love of CW and a need to improve proficiency, with a goal of 25+ wpm.

Purpose: To improve CW through on-air practice at a time and place when others are likely available. Time and place: 7035-7045 kHz every Tuesday, Friday and Sunday around 6-8 pm local time. That means possible overlap with other time zones, which may mean 5 pm in

Texas and 7 pm in New York. Conditions at this stage of the sunspot cycle make a comparable plan on 20m and higher for international contacts a risky proposal so for now we will limit this to 40m local evenings. 73 Jerry, AC4BT, CW Academy Manager

From the CW Ops Reflector CWA FB QSO

Wed Sep 20, 2017 5:20 am (PDT) . Posted by:

["Gary Stone" n5pht](#)

Had a FB QSO (rag chew of 25+ min) with KD2KRG mobile on his way to work. Steve handled 20 wpm FB going down the road!! His CW was very good.

Don't know who his Advisor is but his QRZ page says he is starting level II this month so just wanted to pass this along.

The CWA just may go down as the greatest tool to help those wanting to learn CW we have had in the ham radio world for quite some time. I am always running into ops that have benefited. Whomevers that think it up did good!!! hi hi

73 de N5PHT, Gary
** Gary Stone **
Ham Op N5PHT

Re: CWA FB QSO

Wed Sep 20, 2017 8:13 am (PDT) . Posted by:

["Rob K6RB"](#)

Gary,
Thanks for sharing. CW Academy began as a concept first proposed by Pete, W1RM. I was tasked with fleshing it out, and Jack, W0UCE, came up with a methodology and the idea of using an online audio/video environment. Jerry, AC4BT mastered the complex problem of matching signups and advisors and keeping track of successful completion. Will,

WJ9B, co-managed and contributed ways to refine the methodology. Since then all of the volunteer advisors have contributed greatly to its continued success and popularity

Rob K6RB

For Sale:

Alpha 99 High Performance Amplifier

Alpha 99 high performance HF amplifier. 10-160 Meters including WARC bands. Manual tuning. Wired for 240 VAC. Uses two 4CX800 tubes. Full power (1500 watts) output with 55 watts input. This amp is clean both inside and out. The amp was purchased from Alpha in 2002. SN 9902240255. There are no scratches, no rubbed-off lettering, or dents in the case. This is a one-owner amplifier. Non-smoking environment. There are no mods. Included with the amp is a factory operating manual. Includes two new spare matched Svetlana 4CX800 tubes in unopened boxes with receipt. Extra spare parts also included. This amplifier will NOT be shipped - however, original cartons are included. Inspection, demonstration, and local pickup in South Salem, NY. No trades. Being sold by the XYL of WA2EVH (sk). Call to make an appointment to check out this awesome amplifier. Pictures available to email. Serious potential buyers please. Asking \$3200. (914) 548-2040.



Member and Station News:

Your story could go here in the next Issue of CARA Capers. Contact W1QK, Capers editor

From: KC1HPF - [Gerard LaPorte <gerardlaporte@gmail.com>](mailto:gerardlaporte@gmail.com)

I've got a DXEngineering brand new unused six foot Erico ground rod that I'd be happy to give away. If the club gets a few bucks for the rod, they can keep it.

Link for description of ground rod:

<https://www.dxengineering.com/parts/ero-613460>

The following article was written by NM9J and appeared in the PCARA October, 2017 newsletter. Submitted to CARA Capers by N1NRP with permission from NM9J.

Foxhunt Report

By Malcolm NM9J

PCARA's second foxhunt of 2017 took place in near-perfect conditions on Saturday September 23. The weather was dry, the sun was shining and temperatures were in the low 80s Fahrenheit.



Hunters prepare at the Beach Shopping Center. L to R: Jay N1NRP, Marlon KC1EHW, Charles N2SO, Lou KD2ITZ and Karl KD2HRW. [Pic by Karl N2KZ.]

From 2:30 p.m. Karl N2KZ took care of contestants signing in at the Beach Shopping Center in Peekskill. The number of contestants was surprisingly high — ten in all, including two guest operators (Jay N1NRP + Marlon KC1EHW)

in one team — and a second team consisting of Charles N2SO and Lou KD2ITZ. No doubt this level of interest was encouraged by PCARA's tape measure Yagi project organized by KD2ITZ earlier in the year and by the Foxhunt University led by N2KZ on the previous Saturday, September 16.



Lovji N2CKD takes a bearing from the Beach Shopping Center. [Pic by N2KZ.]

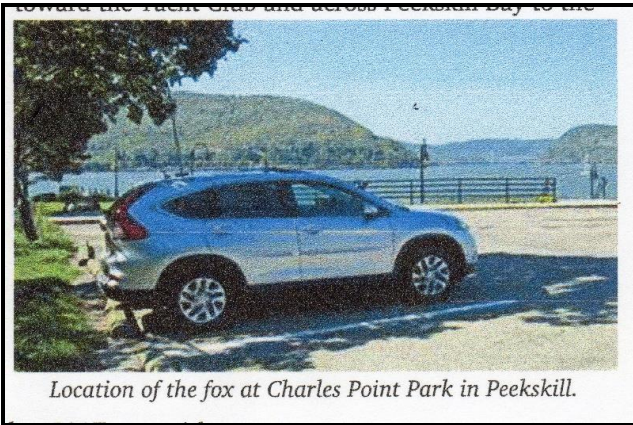
At 3:00 p.m. the first transmission came over the air from the fox, played this time by Malcolm, NM9J. The signal on 146.565 MHz simplex was good and strong as the hunters swung their antennas to find the best bearing. General direction was west.

Lovji N2CKD headed down Rt 202 to the Columbian Engine Company Firehouse and Depew Park, where he ran into Al K2DMV. He then continued to Riverfront Green, assisted by clues in the Fox's script.

Karl KD2HRW and his father, John, followed a similar route to Depew Park and onward to the river front. Meanwhile Mike N2EAB was investigating side streets then preceded to Peekskill High School where he ran into Al K2DMV. From there, signals also led to Riverfront Green.

For the hunters who reached the area of Riverfront Green and the Railroad Station there was now a problem. The signal was very strong, with passive attenuators no longer effective, yet there was no sign of the harmonic on 439.695 MHz — or of the fox. Contestants continued to hunt around the area of the station, around Peekskill Yacht Club

and the new Southern Waterfront Trail and Park — but without success.

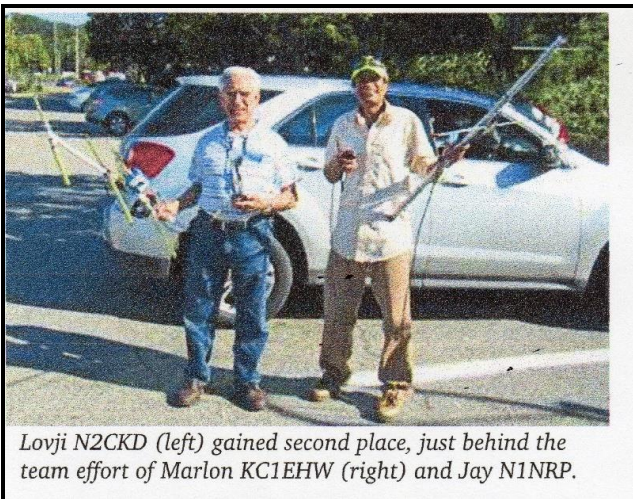


Location of the fox at Charles Point Park in Peekskill.

The reason for this lack of foxes was that your editor (NM9J) was located 1000 feet away on the far side of Travis Cove, in the parking lot at Charles Point Pier Park. This elevated spot looks out across the river toward the Yacht Club and across Peekskill Bay to the Hudson Highlands and Bear Mountain Bridge. The park is located at the end of Louisa Street, just north of the intersection with John Walsh Boulevard.

First to find the fox at 3:37 p.m. was a vehicle with Yagi antenna poking out of the window. It was the guest team of Jay N1NRP and Marlon KC1EHW from Candlewood CARA (the Danbury area club). They had heard about the foxhunt through Al, K2DMV. Well done!

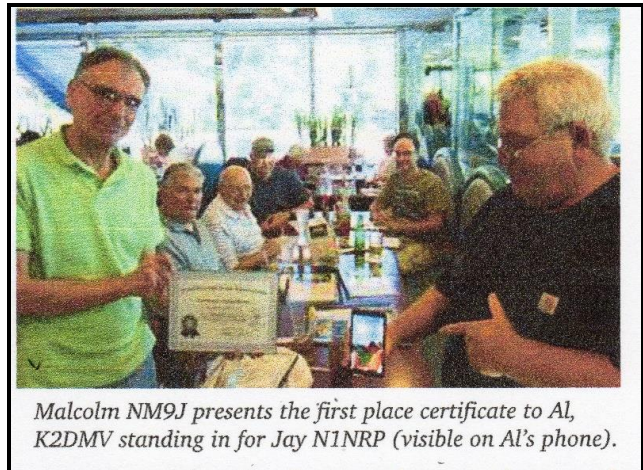
A mere 30 seconds later, Lovji N2CKD also entered the parking lot, and was awarded second place. A great result, with a very close finish.



Lovji N2CKD (left) gained second place, just behind the team effort of Marlon KC1EHW (right) and Jay N1NRP.

Over the next few minutes more hunters arrived, and by 4:15 p.m. Almost all the participant had found their quarry.

The weather was fair and Charles Point park was in such a pleasant spot that most of our hunters stayed on to admire the view and discuss tactics. At 4:30 p.m., NM9J made the final transmission of the event, revealing details of the hidden location and specifying the place of refreshment as the Westchester Diner, ½ mile south on Albany Post Road. All transmissions had been made with an Icom IC-2100H transceiver running 5 watts output to a horizontal dipole, mounted 4 feet above the vehicle roof on an old CB mag-mount mast. Our first place and second place winners had conflicting appointments so they were unable to join the post-hunt celebrations at the Westchester Diner. Everyone else sat down for some welcome refreshment and described their exciting experiences navigating through Peekskill, amidst all the RF reflections. Al K2DMV stood in for the winners when their signed certificate was presented, and pictures of the event have now been forwarded by e-mail.



Malcolm NM9J presents the first place certificate to Al, K2DMV standing in for Jay N1NRP (visible on Al's phone).

Congratulations to all who took part in this second PCARA foxhunt of 2017. The large number of people who successfully found the fox was especially gratifying, in view of all the construction and training efforts that have taken place. See you in 2018! - NM9J

**Former CARA Member –
Dr. Robert Glorioso, W1IS**
de W1QK, W1IS & W1CSM



Photo Credit: W1QK

I've been in contact with former CARA member, Dr. Robert Glorioso – W1IS, to research the history of the club, and document the early CARA years. My secondary goal is to also learn more details about Walter Munzer, W1QI.

Bob was an active CARA member from 1955 to 1968.

Over a series of email exchanges, Bruce King, W1CSM, suggested that I contact Bob to find out more information about former member Walt Munzer – W1QI, and some of the CARA members of that era. Bruce King - W1CSM, was a member from 1965 and CARA President in 1970.

Roger - NG1R, and I learned some interesting facts when visiting with Bob at the recent ARRL Boxboro Convention.

Bob was involved with the VE sessions, so we met over lunch. Bob lives in Stow, MA, just a

short distance from Boxboro. Besides serving as an ARRL Volunteer Examiner, he's still involved with ARES and his local club; PART – the Police Amateur Radio Team of Westford, MA. Bob's mostly on CW and Chairs the CW station and the HF antennas for his club's four HF stations on FD.

Bob's family owned the North Street Conservatories, which was widely known throughout New England as a premier supplier of Geraniums.

Bob said the greenhouses extended from North Street to Thorpe Street, enabling him to install several very long wire antennas in the trees – a perfect setup, even for the middle of Danbury in those days.

Now, that portion of North Street has many professional buildings, with no evidence of the family home nor business remaining.

Bob was raised in Danbury, and earned his Novice Ticket in Jan 1, 1955 under the supervision of Joe Feeley – W1ADW, and finally received his license on March 3, 1955, after waiting three agonizing months - when he was 14 years old.

His first call was WN1EBW. As Bob was looking through his old log books, he found that one of his first QSOs on March 24, 1955 was with fellow CARA member, Bruce King - WN1CSM!

Then, he became W1EBW after he passed the General exam in July 1955. Several years later, (circa 1975) - after passing the Extra class exam in the interim, he applied for and was granted W1IS, his current call sign.

Bob has a unique connection to Danbury and what was then known as Civil Defense - CD, based in the Danbury War Memorial in those days.

Bob (at age 15) handled emergency CW traffic to Hartford during the 1955 Danbury flood – on the air for 24 hours straight; passing disaster traffic to Hartford on CN, the Connecticut CW net with requests for supplies and aid.

“At that time, many of the guys had ten-meter converted GE sets, using the CD frequency of 29.620 MHz on AM.”

After the worst passed Danbury, he was deployed to Derby the next day with several others including Bill Minton - W1VWA, to watch the Stevenson Dam through the next night to maintain a vigil and provide communications if needed. All this was very exciting for a new 15-year-old Ham!

Bob and many other CARA members received Public Service Awards from the ARRL because of their disaster communications.

John Moran -W1ZKQ, another former CARA member, was actively involved in CD at the War Memorial.

John Gruss - W1ACR (SK), was licensed at the same time as Bob and remembered John’s brother Bob, who was also a ham. Bob also went to UConn EE and worked for NSA his whole career. Bob attempted to contact Bob Gruss, but recently learned that Bob Gruss became a silent key in July.

W1ACR, lived on Edgewood Street in Danbury, and worked at Schlumberger Research in Ridgefield, where Walt Munzer – W1QI was employed too.

Tom O’Hara, W1DDJ referred to by Bob as “Dirty, Dirty, John” was one of Bob’s friends in the early days, and lived on White Street across from Danbury State Teachers College. Bob and Tom helped each other build and install antennas and went to NYC with Bob’s dad to take and pass their General exams.

Bob also was the editor and publisher of what could have been the first CARA newsletter in 1955 – called *Random Noise*. The first issue was a profile of Joe Feeley – W1ADW, a CARA Charter Member.

Bob also started a Ham Radio Club at Danbury High School, and obtained W1MPE, the club station license and callsign.

Bob met his wife Dee (Dasher), W1MGA, at the Radio Club and administered the Novice license exam to her. While Bob was in school at Northeastern University in Boston, they kept in touch from his fraternity room station every day on 75M AM. When she wasn’t on 75M talking to Bob, she was on CW from her home on Garfield Avenue in Danbury. They were married in his senior year.

When back in Danbury for co-op, Bob also was a close friend of another CARA member, Tony Castellano, W1ZMB, who now lives in Hopewell Junction, NY and is an active QRPer.

Bob did his co-op work through his undergraduate years at Doman Helicopters at the Danbury airport and CBS Labs in Stamford.

After graduating from Danbury High School, Bob earned his Bachelor’s Degree in Electrical Engineering at Northeastern, and then continued to the University of Connecticut, where he earned his Doctorate in Electrical Engineering/Computer Science.

Bob related some details about other former CARA members including Joe Feeley - W1ADW, who was his mentor during his early ham career.

Joe was also *my* mentor. I recall spending time with Joe at his home after I just moved to Danbury in 1968. I remember sitting around his kitchen table, and talking about ham radio.

Other former CARA members that Bob recalled were Joe's son, Ray, K1CSB (SK), John Moran, W1ZKQ (SK), John Gruss – W1ACR (SK), Walt Glover – W1VB (SK), Ray James – K1EDU, Tom O'Harra – W1DDJ, Ken Foshay – W1FBD, Bill Minton – W1VWA, Tony – W1ZMB, who was very active on CARA FD and still is with his club in NY. Tony is exclusively a CW operator, much like Joe, W1ADW was.

Bob also remembered Dave Hedges – W1LRC, and Rita Hedges – W1LIK. Dave did some 2 M AM work and was mostly on HF and mobile. In fact, Bob recently contacted Dave on 17M. Rita was in Bob's 1957 class at DHS, and was also in the Radio Club.

Vic Crawford, W1TYQ, was a CARA member who flew planes around the world.

Bill Minton - W1VWA, was a very active CARA member, and built the first 250-Watt Transmitter for WLAD back in the early 50s.

Bob related some details about his first CARA Field Day experience in 1955. He was logging with Walt Glover, W1VB, using both paper logs and dupe sheets. Bob's code speed was increased significantly because of operating with Walt, and he came away from FD prepared to take on the General 13 wpm CW exam with confidence.

Bob's earliest radio equipment was the Hallicrafters S-38D receiver, and a home-brew crystal-controlled one tube 6L6 transmitter on 80 and 40M, which was constructed on a piece of pine.

Soon after getting his General, Bob's father took him to "Radio Row" on Canal Street in New York City, to visit his father's friend, who owned a radio shop. "We filled the back of my dad's panel truck with all sorts of tube amplifiers and radio components". Bob quickly assembled

a modulator, and was on AM phone because of that expedition.

After 2 years on active duty in the U.S. Army, Bob accepted a professorship at the University of Massachusetts in Amherst in 1969, and taught there in the Electrical and Computer Engineering department for 8 years. His neighbor was Joe Taylor – K1JT. They both had 80M dipoles up; but, as new Assistant Professors, didn't get much air time - so there was no local QRM. Dee also did quite a bit of CW when they lived in Amherst.

Bob was always interested in building a product and wanted to try out the private sector. He was immediately hired by Digital Equipment Corporation, DEC, in Maynard, MA, where he quickly rose in the engineering and business management ranks to become a Vice-President of the company in 1984.

In his first year at DEC, Bob and his colleagues in the Corporate Research Group were involved in creating the specifications and prototypes for the first DEC Personal Computers; including the Robin and the 8088/8086 based Rainbow.

Other accomplishments at DEC included managing the High Performance Computing Division that produced the DEC 10 and DEC 20 computers, VAX 8600, VAX 8650, VAX 9000 and the VAX Fault Tolerant Computer and VAX Clusters. His group also produced system management software and introduced the first DEC transaction processing software. He was responsible for Engineering and Manufacturing facilities in Marlboro, MA and Cupertino, CA as well as sales and marketing support for High Performance Systems in Europe and Asia.

After leaving DEC, he started Marathon Technologies Corporation in his basement, which quickly outgrew that space to employ over 80 people in their facility in Boxborough, MA. Bob retired from Marathon after ten years

and started a company now known as batteryeliminatorstore.com with Russ Moore – WA1RKO (SK), and his son Scott –K1SRG, who is now running the company.

Now, Bob enjoys operating from his well-equipped shack in Stow, MA or from his Riviera Beach, Florida condo QTH.



Main operating position at W1IS in Stow, MA



Photo Credits: W1IS

K3, P3 and a MacBook Pro are the main rig. The KPA 500 connected to a KTA 500 can be driven from either the KX3 or K3. The homebrew antenna switch complements the antenna switch on the KTA 500 allowing connection to a Hexbeam, 135 ft. dipole driven with ladder line, an inverted L for 160, a 40 M full size suspended vertical and a 160 OCF dipole that works on all bands up to 6M. On top is a scanner, 35A Astron Power supply, the rotor controller for the Tail-Twister that turns my Hexbeam - its overkill but I had it in the garage! Next is the rotor controller for the 6M and 2M/70 cm beams. The partially hidden box with the red knobs is the control box for my

homebuilt K9AY loop receiving antenna that I use for diversity reception using the K3's second receiver. On top of the K3 are an amp I built that compensates for my right ear hearing loss and a 4-channel headphone amp that controls a guest headphone or speaker.



On the left is my "Go Kit" that has covers for front and back and a handle on the top. It houses an IC-706MKIIG, an MFJ-948 tuner, SEC-1223 power supply, mike, key, antenna wire and cables. Next is the terrific little KX3 and PX3. On top are 2M and 440 rigs, Daiwa SWR/Power meter and scanner. This part of the station can also be powered from deep cycle solar charged batteries. You may have noticed an old Turn and Bank Indicator and Altimeter. I am a pilot and fly an A-36 Bonanza these days.



I operate from our condo in Riviera Beach, FL from late January to early March using a homebrew crappy pole with 17 ft. of wire out the window using the aluminum window frame as a counterpoise. Rig in FL was IC-706MKIIG in my "Go Box" and now is a KX3.

The Go Box is a bit large, and not easy to carry on a plane, while the KX3 goes as my second carry-on in a "Rose Copp" bag hung around my neck. The "Go Box" goes into the Van for mobile ops or carried to our EOC in the fire station for drills or emergencies.



The W1IS Riviera Beach, FL station

Ham radio is a Glorioso family affair. Besides Bob's wife Dee – W1MGA, his son Scott, is K1SRG, and Daughter-in-law, Lesley, is K1LTG. Bob and Dee are both ARRL Life Members. Son, Scott, K1SRG and Dee, W1MGA, are also active in ARES.

Unfortunately, Bob didn't recall too many details about Walt Munzer, W1QI. However, he said that he did meet Walt at several CARA meetings.

Walt lived in Ridgefield for many years at a place on North Street, called "Lone Trout Farm". I did learn that Walt was employed at Schlumberger Research in Ridgefield until he retired from there in 1965.

It was our distinct pleasure for Roger and me to meet and visit with Bob at the Boxboro ARRL Convention in September, and we sincerely appreciate his time in sharing this glimpse back about CARA while preparing this article.

Thanks also to Bruce King - W1CSM, for helping to connect with Bob.

My research on Walter Munzer, W1QI continues...



CARA is an ARRL – Affiliated Club

NOTICE TO CAPERS READERS

CAPERS is an important aspect of our club.
It's time for **more participation** with this
publication.

CAPERS is looking for ANY and ALL input.

Don't be shy, just send a few words, a picture,
link, or short message to Dan Fegley, your
Editor:

w1qk@snet.net

CAPERS deadline for input:
LAST Friday of the Month preceding the
meeting.

CAPERS will be released:
Monday before the scheduled Friday monthly
meeting – or earlier if possible.

73- Dan, W1QK



The Twenty-Fifth Annual

Nutmeg Hamfest

And ARRL Connecticut State Convention

Sponsored by the Meriden Amateur Radio Club, Inc.

Sunday Oct 22nd, 2017 8AM – 2PM



Same Great Location!

Sheraton Four-Points Hotel

275 Research Parkway, Meriden, CT 06450

Indoor exhibits open to the public at **8:00am sharp!**

Many great door prizes — including new radios!



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It's worth the trip — this should be peak fall foliage time, too.

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Ham Radio and High Altitude Ballooning Larry Reed, AB1JC

Antenna Gain — What Do Those Numbers Mean? Joel Hallas, W1ZR

Em-Comm vehicles and equipment on display

Bring the Kids! Youth Activity with Douglas Sharafanowich - WA1SFH

ARRL Forum with Chuck Motes, K1DFS, CT Section Manager;

Tom Frenaye, K1KI, New England Division Director;

and Mike Raisbeck, K1TWF, N.E. Div Vice Director

Selling Space and Tickets

Inside Vendor Setup and Tailgating at 6am

Building opens for the general public

8:00AM

INSIDE: \$20.00 (\$15.00 until 9/18) 6 ft table & chair

OUTSIDE: \$10.00 One outdoor tailgate space

GENERAL ADMISSION: \$7.00 Children under 12 Free

Vendors Contact: John Bee, N1GNV

jbee@qsradio.com

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Phone: (203) 440-4973 days

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