



Capers

May - 2024



The Monthly Newsletter of The Candlewood Amateur Radio Association

Mailing Address: 120 Fire Hill Road Ridgefield CT 06877.

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

Editor: Dan Fegley – W1QK

This in-person meeting with the Metro North Amateur Radio Association will be conducted on Friday, May 10 at the Danbury Railroad Museum on White Street in Danbury.

Gather at 6:00 pm.

Yard and museum tour begins promptly at 6:30 pm.



DANBURY

RAILWAY MUSEUM



The Metro-North Railroad Amateur Radio Association grew out of an idea among a group of MNR Radio Maintainers to form a club for employees who have an interest in radio. This effort began in June of 2016 and was finally approved by the management of Metro-North Railroad in January of 2020.

CARA Monthly Meeting Agenda

May 10, 2024

At the Danbury Railway Museum on White St. in Danbury

Program: *Arrive at 6:00 pm for Tour of the Danbury Railway Museum @ 6:30pm*

Meeting call to order.

- Pledge of Allegiance
- Welcome new members and guests!
- Members introduction

Secretary Report:

- Acceptance of Previous Month's Meeting Minutes as Published in CAPERS
- Correspondence if any
 - K1KI response re: NEQSO Party

Treasurers Report:

- Acceptance as Published in CAPERS
- Updates if necessary

Committee Reports

- Nominations from Dave WA1JGA
 - Nominations from the floor
- Repeater Committee Reports: Steve, W1SMS
- Website and IT Committee: Stephanie Fuda
- Operating Activities Committee
 - Field Day- **under new business**
 - POTA May 18th Lover's Leap 10-2
 - Future POTA's 3rd Saturday of Month 10-2 Location TBD
- Fund Raising Committee
 - See new business laptops.
- Membership Committee

Old Business

- Tech Class Wrap Up
- June Program: National Guard Communications

New Business

- Purchase 3 new laptops for FD/WFD, repurpose existing laptops to VE sessions
 - Estimated cost new laptops \$1500
 - 15" screen size
 - Fundraising opportunity
- Field Day June 22/23 at Ball Pond FD
 - Leader(s) needed
 - Planning Document from W1QK
 - Sign-up sheets already out there from KB1ZAC
- July Meeting Program: Elmer night part 2
- Ridgefield July 4th Fireworks
- Possible Special Event at Danbury RR Museum during summer months?
 - Other events at RR Museum other times of year
- New Fairfield Day Special Event Station- September

Announcements

- Pasta Night Tuesday May 21 at 6:00 pm Vespucci Lodge
- Dayton May 16-19th
- Northeast HamXpo (Marlboro) last weekend of August

Good of the Order

Adjournment and Next Meeting

- Planning Meeting Friday 5/25 at 7:30 via TEAMS
- June Meeting Friday 6/14 at 7:30 in Person at Stony Hill FD, Bethel



President's Message

de W1NSK

Springtime is officially here! Trees are in bloom and the flowers are out. While you're outside working on those needed projects after the Winter months, now is a good time to make necessary antenna repairs or contemplate that new antenna. Perhaps a 2 Meter Base antenna or some wire antennas for HF (Or Maybe More!). I want to welcome our 10 new club members this month. Some I have met, others I have not. We look forward to having your active participation in the club and ask you to join one of the standing committees. See me at a meeting and we'll

see what we can do to get you involved.
Again Welcome!

Friday May 10th is our Monthly Meeting. This month we will be at the Danbury Rail Museum for a guided tour. Our meeting will be held afterward. We are gathering a bit early at 6:00PM at the Museum in Danbury.

This month the club POTA activation will be on Saturday May 18th at Lovers Leap State Park in New Milford. Join us from 10AM to 2 PM. Bring a portable station or assist one of the several club members who will be operating. A good opportunity for newer Hams to learn and see HF stations in operation.

Our Technician License Class has been successfully completed with 8 new licensees! Congratulations! I also want to thank those who put this effort together, organizing, teaching, and administering the class! Job well done. A General Class is in the works.

Club elections are upon us. A slate of candidates will be presented at our May meeting. An email vote will be taken, and results announced at our June Meeting. Be sure to vote!

8:00 PM Sunday nights after our weekly club 2-meter net (CAARA Repeater) is our Elmer Net. Bring those questions you always wanted to ask or listen in and learn something new. Primarily for new Hams, Technicians and those wanting to have a question answered. Nothing is too basic to ask! The focus is getting on the air, antenna setup, operating techniques, and the like. Join Us.

Of note the last weekend of the month (Memorial Day Weekend) is the annual

CQ WPX Contest CW Version. This worldwide event brings a great deal of global operating activity. Break out that Key and tune up your CW skills, It is always a lot of fun!

If anyone has an idea that they would like to present, or suggestions of what and who to present to the Club at a meeting, get in touch and let's talk about it! Digital Modes, CW, EME and Satellites are all of interest!

As I always say, this is your Club. We encourage active participation in one of numerous committees. Let anyone of the officers know of your interest and what you may want to get involved with. Remember this is all about fun and our Hobby!

See you on the Air!

Bud – W1NSK
CARA President



**CARA Has been an ARRL Affiliated
Club since 1946 – 78 Years in 2024**

Vice-President's Message:

de W1JGM



What an exciting month. April was the culmination of CARA's Technician-Level class. We started to plan this event in January. We were ready to go in March with ten students and four instructors. The class was held both in-person and virtually. We studied as a team and individually, in-person at the Ball Pond Volunteer Fire Department in New Fairfield, and on Microsoft TEAMS most Sunday evenings. Our students and several others from outside the class took the license exam test on April 21 by the club's ARRL Volunteer Examiners. There are now 8 new Technician-Level and two General class hams in the Greater Danbury area. Congratulations to all the new licensees! We'll be listening for you on the CARA repeaters and other bands.

CARA's monthly POTA (Parks On The Air) outings resumed on April 21, holding our first session at Squantz Pond State Park (US-1719) in New Fairfield. Several club members set up their portable stations and enjoyed the day and greeted several visitors. Our May 18 POTA outing will be at Lovers leap State Park in New Milford from 10:00 am until around 3:00 pm.

A group of 15 CARA members also gathered on April 20 at the Amerigo Vespucci Italian American Club in Danbury for their "Big Eaters Dinner". There was plenty of good food and conversation – with no one leaving hungry. This quarterly event is different from our monthly Tuesday night Pasta Night dinner. You should make plans to attend the next one. Watch for details in a future Capers issue.

Calling all CARA Railroad enthusiasts:

Our next club meeting on May 10 will be a joint meeting with the Metro North Amateur Radio Association.



The meeting will be held May 10th at the Danbury Rail Museum at 120 White St. in Danbury.



We'll gather there at 6:00 pm and will be guided on a private (complimentary) tour of the Yard and Railway Museum at 6:30.

Our regular business meeting will begin after the tour. Don't miss this opportunity to visit a growing destination for Railfans of all ages.

CARA is YOUR club - and it needs your support.

Be an active member and be proud of it.

Get on the air and have fun.

73,

John Morelli - W1JGM
CARA Vice-President



**CARA is an ARRL-Designated
Special Service Club**

**ARRL SSC recognition renewal application
approved: March 2024**

April 12 - Monthly Business Meeting Minutes

de CARA Secretary/Treasurer, John Ahle - W1JMA



CARA Monthly Meeting Minutes

April 12, 2024

The meeting was called to order at 7:31 pm by John - W1JGM, CARA VP. John welcomed those attending and welcomed guests. There were 18 members present at the meeting.

The March meeting minutes as printed in CAPERS were moved, seconded, and approved.

The report of the Treasurer as printed in CAPERS for the period ended March 31st was moved, seconded, and approved. John, W1JMA, mentioned that there had

been no response from the Treasury Department regarding being locked out of the I Bond account.

Committee Reports:

Steve, W1SMS, repeater chair, reported the 2m and 440 repeaters are functioning.

Stephanie Fuda was not present to discuss the status of the website. John, W1JMA, mentioned that the new website is working well, and events and calendar updates can easily be accomplished.

John, W1JGM, mentioned that the next operating activity will be the monthly POTA outing on 4/20 at Squantz Pond.

Old Business:

John, W1JGM, updated those in attendance about the status of the Technician class. There are 10 students poised to take their test on Sunday 4/21.

John, W1JMA, went through the document submitted to the ARRL to secure the Special Service Club designation. ARRL awarded this designation to CARA earlier this month. There are only 3 SSC clubs in Connecticut.

Dave, WA1JGA, reported on the status of the nominating committee. The committee will bring the slate to the May meeting for elections to occur at the June

meeting. Anyone interested in any position should contact Dave.

Dan, N2DGT, confirmed that the May meeting will be held at the Danbury Railroad Museum, jointly with the Metro North Ham Club.

John, W1JGM, confirmed that the June meeting program will be about the National Guard Communications... In addition to Field Day Planning. Dan, W1QK, will send out the FD planning tool.

New Business:

Dan, W1QK, made a motion for CARA to donate \$50 to the New England QSO Party to support one of the two plaques awarded for high scores in CT. The motion was seconded and approved. Dan went on to explain that the leadership of NEQSO party has decided to eliminate CT counties and replace them with some other government geographic designation. This information raised another motion to vacate the earlier motion. A motion was made, seconded to not support the plaque. After much discussion, the motion failed. A third motion was made to notify the NEQSO Party leadership that CARA would not fund any future plaques until the CT counties designation is restored. This motion was made, seconded, and approved.

A letter will be sent to NEQSO party leadership notifying them of this motion. It was noted that the Worked all CT Counties award administered by CARA would not change.

There was a brief discussion about CARA "bling". It was noted in CAPERS that there are currently 2 companies that offer CARA "bling". Rankin Textile in Danbury and Café Press, which is online.

Announcements:

- Big Eaters at Vespucci Lodge is the last Thursday of the month. W1JMA will reserve a table for those interested.
- The weak signal conference is later this month.
- Dayton is in early May, Bud and Steve are going.
- Marlboro is in August.

Good of the Order:

Dave, WA1JGA, discussed information about one of the club founders and his mentor, Joe Feely - W1ADW. Joe was one of the first CT hams to participate in the November Sweepstakes. He made a clean sweep (made contacts with all the ARRL Sections) and won the first contest. Dave showed a memento received from ARRL; the clean sweep broom that was awarded to Joe.

Certificates of appreciation were given to Dan, W1QK, Harlan, W1QH and

Roger, NG1R, for their *Introduction to Radio Teletype – RTTY* presentation at the March meeting.

Next Meetings and adjournment:

- Planning meeting on Friday 4/26 at 7:30pm on TEAMS
- May 10th Monthly meeting at the Danbury Railway Museum

The meeting was adjourned at 8:33pm and the Elmer night program began.

CARA Treasury Report April 30, 2024

Income:	Full Member Dues 2024
	\$1765
Income:	Associate Member Dues 2024
	\$20

Total Income: \$1785

Expense:	Donation-WA7BNM&POTA
	\$50
Expense:	Insurance – Eq & Liability
	\$305
Expense:	PayPal Fees
	\$14.10
Expense:	Website/Hosting Fees
	\$30.98
Expense:	NE QSO Party Plaque
	\$50

Total Expense:
\$450.08

Net Income for Period
\$1334.92

Cash: Checking	\$7971.34
Cash: Petty	\$50
Investment: I Bond	\$7343

Unrestricted CASH Balance: \$15364.34

Number of full members: 50
Associate members: 1

DISPLAYS & EXHIBITS

The Danbury Railway Museum is in the heart of Danbury, Connecticut.



May Meeting:



DANBURY
RAILWAY MUSEUM

This month's meeting is Friday May 10th at 6:00pm at the Danbury Railway Museum on White Street in Danbury - hosted by the Metro North Amateur Radio Association, which is based at the Railway Museum.

The program is a museum and yard tour followed a CARA Business meeting and a chance for members of both radio clubs to mingle and socialize.

Our [fully restored train station](#), built in 1903, houses a collection of historically significant artifacts and a [research library](#) covering railroading's rich heritage in New England and the northeast United States. Just behind the station is an extensive rail yard, featuring over 60 pieces of [historic railroad equipment and rolling stock](#). The Museum and rail yard are [open year-round](#). Family-friendly [rides aboard our historic trains](#) are offered every weekend between April and December, and special event trains are operated for Easter, Autumn, and Christmas. **Welcome aboard!**





Our museum is home to an ever-growing collection of railroad artifacts and objects. On display inside Union Station, you'll find railroad lanterns, china and silverware, timetables, tools, historic photographs, uniforms, telegrams, and model trains. All these items help illustrate the impact railroading has had in New England and our region.



Just outside and across the tracks is Danbury Railyard. Our 15-track, 10-acre historic yard is home to over 75 pieces of railroad rolling stock and locomotives. For a full roster and details on each piece of equipment, [click here](#).

By far the largest artifact associated with our organization is Danbury Union Station, which serves as our main display space and welcome center. Our city has been associated with railroads since May of 1850, when a charter was granted to the Danbury & Norwalk Railroad. The first regular train service began in March of 1852. Over the next several decades, railroads in New England continued to grow, linking emerging industrial centers, farm regions, and large cities together.



By the 1880s, Danbury was home to three railroads, each with its own station. The Danbury & Norwalk Railroad's station was on Main Street on the same plot of land where the Post Office is now, the New York & New England Railroad's corporate offices and former station still stand as

part of the Leahy Fuel Company, and the Housatonic Railroad's station once stood on the north side of the Maybrook freight line. All three would become part of the New York, New Haven & Hartford Railroad in 1892.



In 1896, the 'loop' track was constructed to connect the old Danbury & Norwalk line with the former New York & New England Railroad tracks. The construction of Union Station followed, and it opened its doors on July 13, 1903. The new 'L' shaped building was said to be the largest station on the railroad's New York Division. The spacious waiting room is accessed through a 12-foot-wide brick archway. The west end of the room features a fireplace accented with subtle floral-patterned brickwork, and the room originally also had a lunch counter in the southeast corner. The long benches in the main entrance hall are all original to the building. The baggage room was in the northwest corner of the building; today it serves as our Gift Shop. The Adams Express room was in the southwest corner.

This was later known as the Railway Express Agency; they were a conglomerate of the railroads that handled the shipping and delivery of packages, trunks, and even fresh bakery products. Today, this room houses our research library and archives. In the middle of the station you'll find the ticket and telegraph offices, used today for museum administrative purposes.



Timetables from the early 20th century report that about 125 trains passed through town daily. Key destinations like Pittsfield, Mass. to the north, New Haven to the east, Maybrook Yard to the west, and Norwalk and New York City to the south made Danbury an ideal terminal location. In 1925, the tracks to Norwalk were electrified with overhead catenary, allowing for direct service to Grand Central Terminal. After World War II, both freight and passenger traffic began to diminish. Once the Interstate Highway System was built, shipping by truck became more feasible and people began traveling by car.



Alfred Hitchcock filmed portions of his 1951 film *Strangers on a Train* in Danbury. He chose Union Station to play the part of Metcalf Station because of its curved platform and central location in a 'fair-sized city.' Around this time, general maintenance would start to be overlooked. It survived the floods of 1955, whose high-water mark was 4 feet above the waiting room floor. By the mid 1950s, the canopy sagged so badly that it was reported a fireman getting off a train injured himself by walking into it. It would soon be stripped from the building and disappear before the end of the decade.



The railroads that served Danbury fell on hard times too. The New Haven Railroad

went into bankruptcy, and on January 1, 1969, it became part of the Penn Central Railroad. In the 1970s, the building was slated to be torn down as part of a redevelopment plan for downtown. When the Nixon administration withdrew federal funding for the redevelopment project, the building was spared. The Penn Central would soon fail, and in 1976, the federal government acquired the assets of it and five other northeastern bankrupt railroads to form the Consolidated Rail Corporation, commonly known as Conrail. On September 25, 1986, the station was added to the National Register of Historic Places. Conrail became profitable in the early 1980s, and was sold off to CSX and Norfolk Southern in 1999.



In the early 1990s, the Connecticut Department of Transportation wanted to build a new high-level railroad station that would meet the standards set forth in the Americans with Disabilities Act (ADA) while also serving the commuting public more efficiently than the now-condemned Union Station. They could not rehab the existing building, because the sharp curve

of the tracks would not allow for a high-level platform. The City of Danbury would perform a land swap with the state; a parcel of undeveloped land on the opposite side of the loop track for Union Station and the parking lot.



In 1992, the City of Danbury received a federal ISTEA grant of \$1.5 million to restore the station back to its 1903 appearance. The project was completed in 1995, and the building was dedicated on October 29th of that year.

Our museum has occupied the building since 1996, and while it is no longer an active passenger station, Metro-North commuter trains continue to pass by the curved platform every day.



In 1991, well after all the lucrative hat industry that long supported the city was gone, downtown Danbury, much like many other smaller downtowns, was in decline. Danbury Union Station had become so dilapidated that Metro North was only using the ticket office portion of the crumbling 90 year-old building. Danbury Mayor Gene Eriquez began to focus on resolving the issues facing his downtown.



The city of Danbury began by performing a land swap with the State Department of Transportation, trading an underdeveloped plot of land by the iconic 'gas ball' for the now condemned Union

Station building, and several non-railroad uses were proposed for the new city property. Around the same time another railroad preservation organization based out of Old Saybrook, Connecticut had outgrown their Essex facility and was looking to relocate. Union Station and the under-utilized freight yard looked attractive to them and the city was interested.

So, the Railroad Museum of New England and the City of Danbury began talks. The public responded favorably to the proposed 'Danbury Railroad Heritage Park,' an October 6, 1991 Danbury News-Times editorial remarked that the RMNE could be 'an anchor' in 'a rejuvenated downtown Danbury.' In the summer of 1992, the city was awarded a 1.5 million-dollar ISTEA grant for the restoration of Union Station, things seemed to be moving in the right direction. But in early February 1994 negotiations fell through, the RMNE moved on and would eventually plant a flag in Thomaston Connecticut.



The City of Danbury still had an eyesore of a building and an empty rail yard, both at a high visible location in the downtown area, and both with no viable tenants. Still

hungry for a railroad attraction, Mayor Eriquez turned to members of the Western Connecticut chapter of the National Railway Historical Society and challenged them to come up with a proposal to make use of the city's rail assets. Within days the late Peter Cornwall and the late John Flower presented the mayor with a proposal for a new museum. This organization would "inform and educate the public about the vital role railroads and railroaders have played." The city accepted the proposal and the Danbury Railway Museum was incorporated as a not-for-profit organization in March of 1994.



The museum began life in an empty storefront at 16 Ives Street and for the first year this was home. In May of 1995 we signed a lease with the city making us the sole tenant of the rail yard. It was only one month later on a Snowy April 8th that the Housatonic Railroad made a special delivery of five coaches, then owned by the Connecticut Department of Transportation and leased to us. With the delivery of the Coaches came the surprise donation of an ex-New Haven Railroad gondola.



Before long the rail yard collection was growing, Metro-North Donated two Budd Rail Diesel Cars, then two Burro cranes. In January of 1996 we bought our first locomotive, an American Locomotive Company model RS-1 from the Green Mountain Railroad of Vermont. The end of February saw our first caboose, an ex-New Haven Railroad class NE-5 that saw service in the Danbury area in its working life and now in retirement.



As the yard came back to life, the restoration of Union Station continued. In April of 1996 we left Ives street and moved into our new home, the fully Restored Danbury Union Station at 120 White Street. Since then our collection has

grown, not only the yard, but also to include artifacts, books, pictures, blueprints, railroad timetables, and other periodicals. Most of the paper collection is made available for viewing to researchers and historians through our research and reference library.

Today we're one of the few museums open year round, and from April to November you can ride **The Railyard Local**. This short and sweet ride has proven to be a hit with younger visitors. After your ride feel free to tour the rest of the Railyard and see the now over 60 pieces of equipment on property.

Mission

The purpose of the Corporation shall be to operate a railway museum in Danbury, CT, to educate the public as to the history of railroading and to the role of the railroads as part of our local and national heritage, and to engage in any and all activities convenient to said purposes.

*The Danbury Railway Museum is a 501(c)(3) non-profit organization staffed entirely by volunteers. The Museum's ongoing preservation efforts are funded by memberships, **donations**, grants, and museum admissions. If you are interested in railroad history in New England, we encourage you to **become a member** or **volunteer**. On-the-job training is available for all volunteer positions, including train crew!*

Source: <https://www.danburyrail.org/>



The Metro-North Railroad Amateur Radio Association (**MNRARA**) is comprised of *current Metro-North Railroad employees and retirees* who have an interest in amateur radio. An amateur radio (HAM) license is **not** required for membership.

We invite all *current Metro-North Railroad employees and retirees* who have an interest in radio communications and associated technologies to join us.

Our History:

The Metro-North Railroad Amateur Radio Association grew out of an idea among a group of MNR Radio Maintainers to form a club for employees who have an interest in radio. This effort began in June of 2016 and was finally approved by the management of Metro-North Railroad in January of 2020.

Our Mission:

It shall be our purpose to further the exchange of information and cooperation between members, to promote radio knowledge, fraternalism and individual operating efficiency, and to so conduct club programs and activities as to advance

the general interest and welfare of Amateur Radio in the community.

Source: <https://mnrara.org/>



Weekly CARA Sunday club NETS:

Informal 10M Net: 28.490 MHz. USB 7:00 pm – 7:30 pm. Net Control: Vin – N2OHH

The CARA Net: W1QI 2M FM Repeater – 7:30 pm.

Net Controls: David - KB1ZAC, Charlie - KC1IBR.

Contact Vin – N2OHH or David – KB1ZAC respectively if you would like to be a CARA 10M or 2M Net Control Operator.



Upcoming Contests, Hamfests & Meetings:

May 10: CARA Monthly Business Meeting. In-person at Danbury Rail Museum, White St., Danbury. Gather at 6:00 pm for a 6:30 pm tour of yard and museum. Joint meeting with Metro North Amateur Radio Association.

May 13: CT ARES Region 5 South Meeting via
Teams - 7:00 pm

May 18: CARA Monthly POTA event. Lovers
Leap State Park, New Milford.
10:00 am ~ 3:00 pm

May 18: Goshen Hamfest – Goshen Fairgrounds.

May 21: CARA Monthly Pasta Night Dinner -
Vespucci Italian-American club in
Danbury. \$ 12 for bowl of pasta with two
meatballs, salad, bread & butter, cash
bar for soda, wine, and beer. 6:00 pm.



May 24: CARA Monthly Planning Meeting on
TEAMS: 7:30 pm

May 24-26: CQWW WPX CW Contest

May 28: CT ARES Region 5 Monthly meeting via
TEAMS

May 8, 15, 22, 29: CWops CWT 1300Z & 1900Z
Wednesday, and 0300Z (Thursday)

[https://cwops.org/cwops-
tests/https://cwops.org/cwops-tests/](https://cwops.org/cwops-tests/)

Use this link to learn more about the **K1USN
Radio Club's SST** slow speed CW contests:
<http://www.k1usn.com/sst.html>

**June 7; June 2024 Capers input deadline to
w1qk@snet.net**

**Editor: Dates, links, and other details for this column
provided by:**

<https://www.contestcalendar.com/index.html>

For current scores, visit:

<https://www.3830scores.com/index.php>

*Use this link to access the **WA7BNM
Contest Calendar** website:*

<https://www.contestcalendar.com/index.html>

Editor:

*CARA has contributed financial support to WA7BNM
for his Contest Calendar and 3830 Contest Scores
websites for two years.*

2024 Ham Exam Schedule



Upcoming CARA 2024 Amateur radio exams:

I have scheduled the following times for ham
radio testing at the Stony Hill Firehouse.

All sessions are at 11:30 am on Saturdays.

June 8, 2024

September 7, 2024

December 7, 2024

73, Jon Bernon - AJ1U

CARA Volunteer Examiner Session Coordinator



CT ARES Information:

Statewide Weekly ARES Net: KB1AEV/NA1RA
(NARA) linked repeaters: 8:00 pm

Statewide Weekly DMR Net: DMR repeaters:
8:30 pm

CT ARES Region 5 monthly meetings.:
Region 5 South TEAMS meeting is held on the
second Monday of the month. The CT ARES
Region 5 North & South monthly meeting is held
on the last Monday of the month – currently via
TEAMS but may be conducted in-person in 2024.

Send an email inquiry to Harlan Ford – W1QH,
Region 5 DEC if you would like to learn more
about CT ARES or be added to the distribution for
CT ARES announcements and links to CT ARES
meetings via TEAMS.

hford01@snet.net

Visit this website to learn more about CT ARES,
the weekly 2M FM nets, and WinLink
Wednesday:

<http://www.ctares.org/>

This document lists CT DEMHS Towns by
Region:

[https://portal.ct.gov/DEMHS/Emergency-
Management/Resources-For-Officials/Regional-
Offices/Towns-by-Region](https://portal.ct.gov/DEMHS/Emergency-Management/Resources-For-Officials/Regional-Offices/Towns-by-Region)

*Submit CT ARES news to CARA Capers to
be included here in next month's issue.*

*"When Everything Else Fails. Amateur
Radio often is our last line of
defense...When you need amateur radio,
you really need them."*

The Hon. W. Craig Fugate - Former
Administrator, US Department of
Homeland Security, FEMA

CT ARES Winlink Wednesday

Put your 2M FM Winlink Packet station on the air to
participate in the monthly CT ARES Winlink
Wednesday message practice. Try to use the W1SP
nodes in our area:

W1SP-6	LITCCT	Litchfield
145.65	FN31JR	

W1SP-7	NHAVCT	Oxford
145.63	FN31JK	

W1SP-8	FAIRCT	Bridgeport
145.69	FN31JE	

Next CT ARES WinLink Wednesdays:
**Wednesday, May 8 and Wednesday –
June 5**



The CW Operators' Club

cwops.org

The CW Operators' Club, commonly known as CWops, is an international organization, in membership and management, for amateur radio operators who enjoy communicating using Morse Code. Its mission is to foster the use of CW, whether for contesting, DX'ing, traffic handling, or engaging in conversations.

Visit the CWops website to learn more about CW Academy and how you can sign up for the popular & free on-line CW training classes.

<https://cwops.org/cw-academy/cw-academy-options/>

To become a member of CWops:

<https://cwops.org/membership/>

Editor: Recent Posts to the CWops Reflector with credit to contributors:

Great tool for DETAILED tracking of Solar Flares

From: [Doug KR2Q \(438\)](#)

Date: Tue, 07 May 2024 05:56:34 EDT

Check this one out.

Very nice!

https://www.sidc.be/solardemon/flares.php?min_seq=1&min_flux_est=0.000000001&days=14&science=0

de Doug KR2Q

The Amateur's Code The Radio Amateur is:

CONSIDERATE...never knowingly operates in such a way as to lessen the pleasure of others.

LOYAL...offers loyalty, encouragement and support to other amateurs, local clubs, and the American Radio Relay League, through which Amateur Radio in the United States is represented nationally and internationally.

PROGRESSIVE...with knowledge abreast of science, a well-built and efficient station and operation above reproach.

FRIENDLY...slow and patient operating when requested; friendly advice and counsel to the beginner; kindly assistance, cooperation and consideration for the interests of others. These are the hallmarks of the amateur spirit.

BALANCED...radio is an avocation, never interfering with duties owed to family, job, school or community.

PATRIOTIC...station and skill always ready for service to country and community.

--The original Amateur's Code was written by Paul M. Segal, W9EEA, in 1928.



Capers: Swap and Shop

CARA Swap & Shop Policies:

CARA assumes no responsibility for transactions made or inaccuracies in ads. You are responsible for checking your ad and notifying us of any corrections. Swap and Shop listings are open to licensed CARA hams, based on space available. Please submit your items to w1qk@snet.net for placement in the CARA Capers.

FOR SALE:

Yaesu FTDX 2000. 100 Watts, 160-6 Meters.
All Options and Digital Filters. \$900.

2015 Ford AWD Escape, 4Cyl, 80K Miles 2
owners, clean Car Fax.

CARA Club Special: Icom 2 Meter/440 MHZ,
50 Watt Mobile professionally installed.

\$8,000

Contact: Bud Kozloff – W1NSK
203-939-3708



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

Executive Board:

President – Bud Kozloff, W1NSK
w1nsk@w1qi.org
Vice President – John Morelli, W1JGM
w1jgm@w1qi.org
Secretary – Treasurer
John Ahle – W1JMA, w1jma@w1qi.org

Directors:

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CARA is an IRS 501(C)3 Organization.

CARA Mailing Address:

120 Fire Hill Road Ridgefield CT 06877.

*Capers is the monthly newsletter of the
Candlewood Amateur Radio Association
Editor: Dan Fegley, W1QK
w1qk@snet.net*



May issue input deadline: May 3

A brief word from our editor...

CARA CAPERS is the monthly publication of the Candlewood
Amateur Radio Association, Inc. (CARA) and is intended to

present news, issues, and opinions of interest to CARA members and the Amateur Radio Community.

We encourage contributions of articles, letters to the editor, etc. and welcome newsletter exchanges with other clubs from around the country and around the world. Permission is granted to reprint material contained herein if proper credit is given to this newsletter and the author.

Ideas for, and contributions to the CAPERS should be submitted to: w1qk@snet.net.

Submissions must be received no later than the date indicated in the preceding month of issue, *unless otherwise specified*.

Submissions should be in MS Word format or ASCII text. Photos should be in .jpg format.

The input deadline is announced in the previous issue and again at the monthly planning meeting.

Material received after the deadline will be used in the next month's CAPERS if it's still current and /or newsworthy.

The CAPERS is published by CARA Capers Editor. All material contained herein is considered the opinion of the author and not necessarily that of CARA.

Announcements of events are for informational purposes and do not necessarily constitute an endorsement by CARA. No responsibility for accuracy is assumed by the CARA Capers editor or newsletter staff.

This summary is reprinted as a courtesy of: The Mahoning Valley Amateur Radio Association's Award-Winning monthly newsletter: "Voice Coil" <http://www.mvara.org/News/Current.pdf>



About ARRL:

Founded in 1914 by Hiram Percy Maxim, ARRL (American Radio Relay League) is the national association for Amateur Radio in the US. Today, with more than 161,000 members, ARRL is the largest organization of radio amateurs in the world. ARRL's mission is based on five pillars: Public Service, Advocacy, Education, Technology, and Membership.

ARRL -- Your One-Stop Resource for Amateur Radio News and Information

Join or Renew Today! Eligible US-based members can elect to receive QST or On the Air magazine in print when they join ARRL or when they renew their membership. All members can access digital editions of all four ARRL magazines: QST, On the Air, QEX, and NCJ.

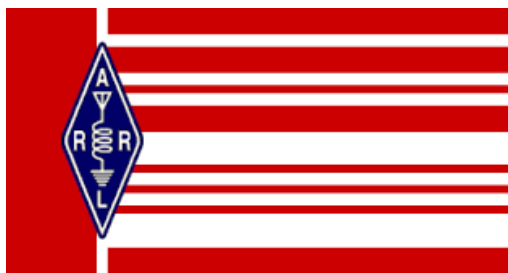
- Listen to ARRL Audio News, available very Friday.

Subscribe to...

- NCJ -- National Contest Journal. Published bimonthly, features articles by top testers, letters, hints, statistics, scores, NA Sprint, and QSO parties.
- QEX -- A Forum for Communications Experimenters. Published bimonthly, features technical articles, construction projects, columns, and other items of interest to radio amateurs and communications professionals.

Free of charge to ARRL members...

- Subscribe to the ARES Letter (monthly public service and emergency communications news), the ARRL Contest Update (biweekly contest newsletter), Division and Section news alerts -- and much more!
- Find ARRL on Facebook! Follow us on Twitter and Instagram!



ARRL New England Division Newsletter: "Beacon":

<https://nediv.arrl.org/wp-content/uploads/2024/01/New-England-Beacon-January-2024.pdf>



The Yankee Clipper Contest Club is a special purpose amateur radio club devoted to the pursuit of operating and technical excellence.

There are in excess of 400 testers who are members of the club throughout New England, New York, and Canada.

YCCC has members who are some of the most proficient contest operators in the world.

CARA has members of the YCCC.

More information about the YCCC at:
<http://www.yccc.org/>

Editor: Excerpts From the YCCC Groups IO Reflector with credit to all contributors:

10 Habits of Winning Contesters: The Contest Crew

From: Kevin Thomas

Date: Wed, 01 May 2024 21:02:01 EDT

What if you asked some of the best ham radio testers in the world for their list of the best, and worst, testing habits?

Randy Thompson K5ZD, Dan Craig N6MJ, Chris Hurlbutt KL9A and Scott Wright K0MD (aka The Contest Crew) had a spirited conversation about this very topic on our call this Tuesday night.

They didn't always agree but there was usually a consensus about the best and worst operating practices in the world of Radiosport.

Bucking all the usual training trends, the Crew didn't simply rattle off bullet points from a PowerPoint presentation, they explained each suggested practice, related it to their own experiences and debated with each other when appropriate.

Per usual, there was a lot of levity in the conversation and no one took themselves too seriously. It is a hobby, after all, even though these guys would gladly out score you if you give them any sort of edge.

Tune in for the ham radio banter and learn from decades of testing experience.

73, Kevin W1DED

Watch the video at this link:
<https://youtu.be/Jgdf60cffzc>



Member and Station News:

Your news or story could be included here in the next issue of CARA Capers. Contact W1QK, Capers editor.

Just snap pix of your station, antennas, mobile installation, etc. and send it to w1qk@snet.net Your Capers Editor welcomes and encourages member input.

CARA's 2024 Technician Licensing class by John Morelli – W1JGM

In early January 2024, I was approached by friends interested in Amateur Radio for various reasons. I spoke to them about the many facets of the hobby, from being able to communicate locally, statewide, worldwide and even to astronauts on the ISS. I explained the activities the amateur radio community is involved with. There was significant interest, so I explained how to get started and what it takes to become licensed. There was a spark of interest, so I approached the CARA club to sponsor a class and agreed to organize and help conduct it.

Three other CARA members offered to assist as instructors: John Ahle - W1JMA, Dan Thiel – N2DGT, and Vincent Tompkins – N2OHH.

We met several times and planned the curriculum, agenda, required supplies and venue to hold the in-person classes. CARA has been conducting weekly Elmer/Mentor sessions for club members on Sunday evenings via MS Teams, so we decided on a hybrid approach, that would combine in-person and on-line sessions. We gathered interest from potential students and instructors and started the class at the beginning of March with ten students and four instructors. Our first class was an in-person session, where many questions were asked, and expectations of the class and other details were explained. The course textbook was supplied by Bud Kozloff – W1NSK, our ARRL CT Section Manager and CARA President. He arranged for them and they were partially paid for by the CARA club. Arrangements were made to use the Ball Pond Volunteer Fire Company in New Fairfield as the venue.

After several virtual Sunday evening classes, we met in-person on a Sunday afternoon for a hands-on class and demonstration. Various amateur radio equipment was demonstrated, which included two live stations on 10 meters. One was used for sideband and one on FT8 digital. Student interest peaked when some 10-meter DX came rolling in. We called on one of the local repeaters with an HT and received a reply from another ham 50 miles away, leaving no doubt that our students were hooked.

We continued the class virtually and included another weeknight class so that additional material could be discussed, and questions answered.

The final exam was conducted on April 21 by a combined Volunteer Examiner (VE) team from the nearby Northville Amateur Radio Association - NARA, and CARA VE team. ARRL's Field Services Manager, Mike Walters – W8ZY, is also a member of both organizations.

The license exam was conducted by using the new on-line HamStudy.org web site. It was interesting to observe the testing in real time using the on-line method.

The VE team tested the class and two additional walk-ins, resulting in adding 9 new Technician - level licensees and two General class to the Amateur Radio community.

Congratulations are in order to the new hams:

Many thanks go to the instructors that assisted in conducting the class: John Ahle - W1JMA, Dan Thiel – N2DGT, and Vincent Tompkins – N2OHH.

I'd like to also extend thanks to Gordon West – WB6NOA, who inspired me and provided information and insight for me to lead my first Amateur Radio training class. Thank you, Gordo for all your help.

The Candlewood Amateur Radio Association – CARA, is already considering conducting a General class starting January 2025 to upgrade our new and current Technicians.

CARA recently applied for and was granted renewal of their ARRL designation as a Special Service Club.

John Morelli - W1JGM
CARA Vice-President

Our First Class



Hands-on



Final Exam

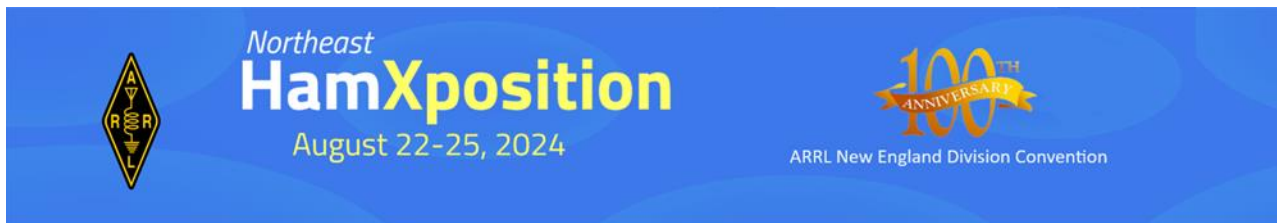


Photos submitted by WIJGM

WinLink 2M CT Packet Gateways - Submitted by W1QK:

CALL	COUNTY	LOC./FREQUENCY	GRID	REGION	EMG.	POWER
W1SP-1	TOLLCT	Tolland	145.65	FN31UV	3	Y
W1SP-2	WINDCT	Brooklyn	145.61	FN41AT	4	Y
W1SP-3	NLONCT	Ledyard	145.63	FN31XK	4	Y
W1SP-4	HARTCT	Avon	145.69	FN31OT	3	Y
W1SP-5	MIDDCT	Haddam	145.69	FN31RK	2	Y
W1SP-6	LITCCT	Litchfield	145.65	FN31JR	5	Y
W1SP-7	NHAVCT	Oxford	145.63	FN31JK	5	Y
W1SP-8	FAIRCT	Bridgeport	145.69	FN31JE	1	Y

Source: <https://ctares.org/data-comms-winlink-packet/>



HamXposition Online Ticketing is OPEN!

General Admission only: \$15

Convention Package PLUS \$139

Includes:

- * General Admission
- * **NEW** Thursday Night Comedy Kickoff
- * Friday DX Dinner
- * Saturday Grand Banquet

This is a savings of \$12 versus purchasing these items separately!

Online ticketing is available now.

If you wish to stay overnight, discounted hotel rates are available through July 25th.

Visit our website for all details and to purchase tickets in advance:

<https://hamxposition.org>

73,
Bob - K1IW
HamXposition 2024

Comedy Show Thursday 8/22 at 8PM
Seminars & Forums Fri, Sat, and Sun
Flea Market Hours: Fri 12-5, Sat 9-5, Sun 9-1
Exhibit Hall Hours: Sat 9-5, Sun 9-1

SKYWARN Training Session, Wallingford CT, June 6, 2024

April 19, 2024 by [Phil Temples](#)



SKYWARN The Meriden Amateur Radio Club (W1NRG) is pleased to announce W1NRG & the National Weather Service, Upton, NY (OKX) is holding a FREE in-person three-hour SKYWARN Training Session.

REGISTRATION IS NOW OPEN

Thursday Wallingford Public Library (Community Room)
200 N Main Street
Wallingford, CT 06492

7:00 -10:00 pm
June 6th, 2024

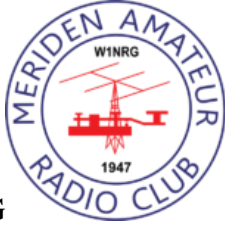
HOW TO REGISTER:

[Weather.gov/nyc](https://www.weather.gov/nyc)

Go to SKYWARN icon in lower left corner. Click on SKYWARN Training Schedule. Chose in-person event and fill out on-line form.

This program is free and open to the public – you do NOT need to be a licensed amateur radio operator. Registration will be limited to 125 attendees.

Ed W1YSM



President, W1NRG
Wallingford Amateur Radio Group/Meriden Amateur Radio Club
ARRL CT Affiliated Club Coordinator
EC SKYWARN NH/Middlesex Counties
W1YSM@arrl.net

New England QSO Party – May 4-5, 2024

Rules

Object: To contact as many New England stations (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont) in as many New England counties as possible on 80-40-20-15-10m. (New England stations work anyone)

Date: First full weekend of May (May 7-8, 2022, May 6-7, 2023)

Contest Period: 2000Z Saturday until 0500Z Sunday (4pm EDT Saturday until 1am EDT Sunday) and 1300Z Sunday until 2400Z Sunday (9am EDT Sunday until 8pm EDT Sunday).

Categories: Single-operator high power, low power(150w or less) and QRP(5w or less) categories, plus multi-operator, single transmitter and multi-transmitter. Mobile categories are the same except not Multi-Multi. Use of spotting assistance and self-spotting is permitted in all categories.

Contest Exchange: Send signal report and state/province (DX stations send signal report and "DX"). New England stations send signal report, county and state.

Valid Contact: Work New England stations once per band/mode. New England stations work anyone (and must copy the county for New England stations worked). CW contacts must not be made in the phone band segments. Mobiles that change counties are considered to be new stations, and can be worked for both multiplier and QSO Point credit. County line QSOs should be logged as two separate QSOs. Crossmode, crossband, and repeater QSOs are not permitted.

QSO Points: Count one point per phone QSO, two points per CW (includes digital modes)QSO.

Multiplier: Stations outside of New England use **counties** as multipliers for a total of 68 (CT/9 MA/14 ME/16 NH/10 RI/5 VT/14). New England stations use states(50)(Count DC as MD), Canadian provinces(14 – VO1/VO2 are separate) and DXCC countries as multipliers. **Note that CT switched from counties to Regional Councils of Government (2024).**

Scoring: Total score is QSO points times the multiplier. Mobiles count QSO points per county and multipliers from all counties (counted once).

Suggested frequencies: CW – 3540 7035 14040 21040 28040, SSB – 3850 7180 7280 14280 21380 28380.

What Happened to Connecticut Counties?

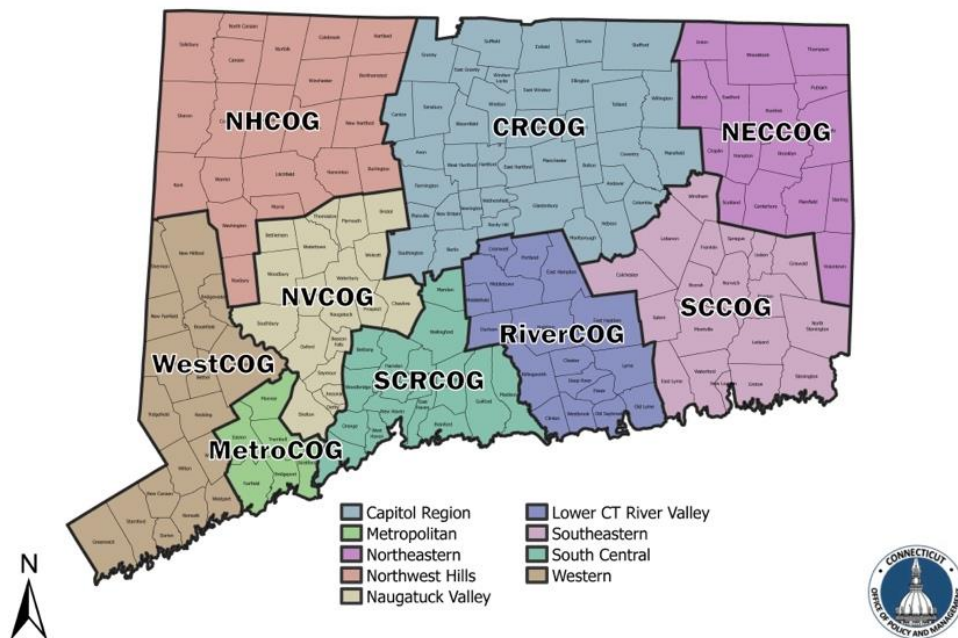
A long time ago (1960) Connecticut eliminated county government. County names have remained “on the books” and on maps ever since, and mostly used to deal with interactions with the US Census and other Federal programs. Every square inch of the state is within the boundaries of 169 different towns where local control is the basis of most local government decisions. Over the years, a series of regional planning districts (Council of Governments) have been assembled to deal with regional transportation, air quality and other areas where cooperation between towns is necessary.

In 2019, the state formally requested that the US Census Bureau approve a proposal to recognize Connecticut’s nine planning regions as the statistical equivalent of counties for the purpose of tabulating and publishing future Census data. This went through a two-year review process and was finally approved in mid-2022. This year (2024) will see the first release of data based on regional planning districts.

The New England QSO Party will recognize the change beginning with the 2024 NEQP. This change will add one multiplier in CT, making for a total of 68 in New England. We will work with software authors to make sure that the “county” change is reflected in current software versions. There will be several other contest rules changes as well, noted elsewhere.

There may be some confusion with those giving NEQP contact information and with those outside of New England. The log checking process will make sure that all entries are scored the same way, with the same list of 68 multipliers.

Regional Councils of Governments in Connecticut



New Connecticut multipliers for the NEQP

CTCAP	Capital Region
CTGBR	Greater Bridgeport
CTLCR	Lower CT River
CTNAU	Naugatuck Valley
CTNOE	Northeastern
CTNOW	Northwest Hills
CTSOE	Southeastern
CTSOC	South Central
CTWES	Western

For additional information:

History

<https://storymaps.arcgis.com/stories/23bc7986213547a79cb8a5dafa84d68d>

Map of Regional Planning Districts

<https://portal.ct.gov/-/media/OPM/IGPP/ORG/COGs/PDFCOGspdf.jpg>

Towns in each District

<https://portal.ct.gov/-/media/OPM/IGPP/Municipal-Directories/Municipalities-Planning-Region-COG.pdf>

Federal Register publication

<https://www.federalregister.gov/documents/2022/06/06/2022-12063/change-to-county-equivalents-in-the-state-of-connecticut>



LED vs. CFL Bulbs: Which Is More Energy-Efficient?

https://blog.constellation.com/2016/03/25/led-vs-cfl-bulbs/?utm_campaign=05-02-2024-resi-usage-email&utm_medium=email&hsmi=305367246&utm_source=newsletter

This chart can help make changing from watts to lumens easier. We match the watts you're familiar with against the ultimately more useful lumens metric. More lumens equals more brightness. When replacing incandescent bulbs, here's a quick breakdown of how wattage translates to lumens:

Replace a 100-watt incandescent bulb with a 1,600-lumen bulb.
Replace a 75-watt incandescent bulb with an 1,100-lumen bulb.
Replace a 60-watt incandescent bulb with an 800-lumen bulb.
Replace a 40-watt incandescent bulb with a 450-lumen bulb.

Choosing the right light temperature

The last thing to consider is the temperature of the light emitted by different kinds of light bulbs. Light temperature, often seen as color, is measured on the Kelvin (K) scale.

The lower the Kelvin temperature, the redder the light. The higher the Kelvin temperature, the bluer the light appears. Candlelight is on the red end of the spectrum at about 1,900 K. Incandescent lights average 2,800 K. The daylight sun is about 4,800 K. LED and CFL light bulbs use filters to offer a range of light colors to fit the desired feel of a room or to support a room's purpose.

CARA 2024 Field Day

Tasks and Responsibilities – 10 Step Planning Document



The purpose of this document is to provide details of tasks and responsibilities involved with the CARA 2024 Field Day activity, which is scheduled for the weekend of June 22-23, 2024.

CARA members are encouraged to sign-up for multiple items to ensure that all tasks are adequately covered.

This is your club – it only works with TEAMWORK.



The level of involvement and commitment will directly affect the planning for, and execution of this event.

CARA 2024 FD Leadership Team:

This Team will consult with the Executive Committee concerning decisions based on the membership commitments made and adjust the scope of our annual ARRL Field Day event as required.

1. Coordination with Field Day Site officials:

Establish contact with site officials. Ensure CARA compliance with site regulations concerning access, times on site, parking, clean-up, and other details.

2. FD Entry class & Radio Equipment:

Determine FD entry class. Determine/arrange for station locations and shelter(s). Determine station equipment needs & arrange transportation. Arrange and perform set up/take down for stations. Create Excel checklist indicating items and sources. Confirm FD stations are operational before FD begins. Install ground rod(s) for station(s). Provide N1MM Logger + common operating hints (documentation) for both stations. Provide equipment manuals for operator reference.

Station #1:

Station #2:

3. Antennas:

Propose and finalize antennas based on number of stations and related factors. Create setup documentation (diagram of what will be used, and where it will be installed) Antenna selection and placement should allow optimum flexibility in band selection and performance, with minimal co-interference if multiple transmitters are used. Attach labels to each FD station antenna. Attach safety streamers to antenna supports, cables, feedlines and other antenna components to ensure safety compliance. Ensure that CARA bandpass filters are installed correctly and provide information related to their use at FD stations. Install/take down antennas. Arrange for transportation of CARA antenna assets including antennas, rope, and coaxial cable feedlines to/from storage at the Bethel EOC.

4. Operator shifts and event coverage:

Create a **Sign-Up Genius** format using web application.

<https://www.signupgenius.com/go/20F054AA8A923A7F58-49094286-field/167048084#/>

Ensure that the entire time we're committing for is covered. Extent of FD operation based on Sign-Up Genius response by CARA membership. Answer questions and communicate information related to operator shifts. Distribute and update often via CARA Groups IO, providing timely updates and communications with CARA FD Leadership Team.

5. Logging Computers:

Ensure that CARA logging laptop computers are prepared and configured with N1MM+ Logger program for logging FD contacts during the operation. Establish a **wired Ethernet** network for FD use. Arrange/provide IT support during the event.

6. Supplies/Food/beverages:

All details regarding FD supplies budget, requisition/transportation of supplies etc. Means for on-site cooking, refrigeration, etc. Set up/take down of field kitchen/food preparation. Historically, several members have provided FD food, with a “donations basket” for member contributions to cover expenses. Food/beverages has **not** been included in FD financial planning nor budgeting. However, 20 ARRL Field Day pins are usually purchased via CARA funding as an incentive for member participation. (based on sign-up and completion of tasks and responsibilities outlined in this document)

7. Field Day Public Relations:

Plan and deploy Visitor/Greeter canopy/table during the event.

Set up a canopy outside (preferred & weather permitting) in front of the FD Site. Greet visitors, provide information, conduct station tours, answer questions, hand out CARA brochure, CARA Membership Application & ARRL information, etc.

CARA member(s) registering the CARA FD site on the ARRL Website and creating a CARA FD Press Release: _____

8. Safety Officer(s) & Security:

Mark all hazards on the FD site including coax cables, antenna supports, ground rod wires, etc. Attach (tape) cables to floor or tape to walls to eliminate trip hazard(s). Ensure that fire extinguisher locations are known by all. Ensure that a properly equipped First Aid Kit is available during the entire FD event.

Perform all the requirements listed on the ARRL Safety Officer FD Checklist document. (from ARRL Website) Provide appropriate security for CARA members, visitors/guests, equipment and assets. Provide signed ARRL FD Safety Officer Affidavit of Compliance to CARA FD Score Submission Team to claim Bonus Points.

Safety Officer(s): _____

Safety/Security Assistants : _____

9. Field Day Bonus points:

Refer to the ARRL 2024 FD Rules & determine which bonus points to complete the requirements for. Provide the ways and means to execute tasks to earn these bonus points. Includes creating and sending the CARA FD message to the ARRL CT Section Manager, creating and handling formal NTS (National Traffic System) traffic (maximum of 10 messages) via the FD station(s) during the event. Making satellite QSO. Writing and distributing the CARA FD Press Release – inviting the media to attend and cover the event. Setting up a CARA FD Social Media Facebook page and uploading content (primarily photos) during the event.

10. CARA 2024 FD Score and Bonus points submission, Report preparation

Review the FD log. Compile the N1MM+ log from logging computers. Gather required evidence (documentation/photos) to support claimed bonus points. Submit score, plus claimed bonus points evidence to ARRL via ARRL Web application. Prepare and submit *CARA Field Day Report* to Capers Editor to be published in the CARA Capers Monthly newsletter.



This space reserved for additional
CARA Member and Station News



CY2024 Membership Form (not valid after 12/31/24)

Name and Call:

--	--

Email and Cell Phone Number:

--	--

Street Address:

--

City, State and ZIP:

--	--	--

License Class(E,A,G,T), ARRL Member(Y/N)? VE(Y/N)?

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Please mail check payable to CARA, Mail to 120 Fire Hill Road, Ridgefield, CT 06877

PayPal: paypal.me/CARADUES

Please scan form to: Treasurer@cararadioclub.org

Full Membership: licensed Hams over 16 years of age:	\$35
Additional Family Member:	\$15
Associate Membership: Licensed Ham under 16 years or non-ham:	\$20

CARA is a 501c3 entity, dues are NOT considered a donation.

This space reserved for additional
CARA Member and Station News