



Capers

May- 2020



The Monthly Newsletter of The Candlewood Amateur Radio Association
P.O. Box 55 – Brookfield CT 06804 - 0055
Visit us on the Web at <http://www.cararadioclub.org>

Next CARA Meeting: Friday, May 8

***Note - This meeting will be conducted via Zoom Video Conferencing
Sign onto Zoom at 7:00 for socializing and conversation
Meeting begins at 7:30 p.m.
Zoom conference invitation emailed to CARA membership.***



W1AW – Maxim Memorial Station at ARRL Headquarters, Newington, CT

This month's meeting presentation –

Paul Bourque - N1SFE, ARRL Contest Program Manager

President's Message – de AB1WV



Well, I hope all of you had a great NEQP this last weekend. I was not able to participate, but I was thinking about it. We will have our next meeting this Friday, May 8th. It will be a Zoom meeting, just like the last one.

Elections are coming up and we need candidates.

We have none so far for President. As I announced last meeting, I will not be running and will bow out as President after the elections at the June meeting.

I'm sure that there is someone that can take over and lead us. Think about it and let Harlan or one of the executive committee know if you would like to run or would like to nominate someone.

See you Friday,

Marcus – AB1WV

May 8 - Meeting Agenda:

Socializing & conversation

Welcome & Pledge of Allegiance

Roll Call

Review of agenda

Acceptance of minutes from last meeting

Treasurer's report

Old Business:

Microsoft office 365 progress

Hamfest update

Payment for 2019 NEQP CARA-sponsored plaque

New Business:

Election - Nominations and Voting procedure for June Meeting

Field Day discussion and options

Migration of CARA Reflector to Groups I/O platform

NEQP Reports from CARA members

Update of 2020 Preliminary Calendar items - Meetings, presentations, & events

*Presentation by Paul Bourque - N1SFE, ARRL Contest Program Manager Topics:
Contesting Q&A, Field Day. Prepare questions for Paul in advance*

Meeting adjournment

Socializing & conversation

Vice- President's Message:
de W1JGM



Welcome to May 2020 - as many of us have now endured 6 to 8 weeks of the most unimaginable events in most of our lifetimes. I pray that everyone and your families are safe - making the most of the time if you are at home.

It's a good time to catch up on the projects around the house, if you have the materials. If you do have to go out, please use situational awareness and good hygienic procedures. If I may comment here, washing your hands is more effective than improperly using gloves. I've seen people putting on gloves and wearing them in the store and out then into the next store or getting in their car. Gloves are a single use protection device and if used improperly can spread contamination. Also, if you do wear gloves, dispose of them properly.

If there is any good to this event, many amateurs have dusted off equipment they haven't used in some time. It is good to hear them on the air.

We'll continue to hold our regular monthly and planning meetings via the Zoom Video platform. This has been working well not only for the formal meetings, but also for some before and

after video rag chews. Hope to see or hear you at the meeting.

I received some donations for the club this week from our member John Ahle - W1JMA. John donated a 2 Meter ICOM portable, an 8 bank AA NiCd battery charger, a G5VR Senior antenna, and a Yaesu FT 2800M mobile radio. John's donated Yaesu mobile radio will serve as our Echolink radio, replacing the current HT. Thank you, John for your generous donation and support of the CARA club.

See you at the meeting, Stay Safe!

73,
John Morelli - W1JGM, CARA Vice-President

April 17 CARA Monthly Meeting Minutes
de N1GSA



Meeting called to order at 7:30pm by Pres. Marcus Swearingen

Pledge of Allegiance was recited

15 people present.

Basic overview of protocol and format was given by Marcus. This included muting and raise hand button usage.

The Resolution was basically explained with a motion to conduct business in an electronic fashion until such time as a meeting in person

would be allowed. This was seconded. Discussion was called for with none heard. The vote was taken by hand vote with all in agreement.

Minutes of the previous meeting were accepted as printed in the Capers.

Treasurer reported an opening balance of \$5558.00. Ending balance of \$5278.98

Repeater Committee reported nothing new although we do have things that will be worked on as soon as we can get together again. John has received the loaner 220mhz antenna from Dan – W1QK, and has tested it on his back porch. He is hoping to raise the antenna higher for further testing. He is also working on the actual repeater and hopes to interface this with the controller soon.

Marcus has not had time to really invest time to relieve our problems with the Tech Soup for our use of Microsoft Office. Mike, W8ZY, informed him that we really need to go thru Scott to get this setup rather than Tech Soup.

John spoke about contingency plans for the Hamfest. We need to have plans in place, in the event that it will NOT go off as planned. Jim suggested a possible moratorium on spending until the future becomes clearer.

The future of Field Day was brought up. Gregory spoke about the plans of NARA to have this event held at each home station. Dan spoke about a possible friendly competition of CARA vs NARA within the Field Day event. There could be a ZOOM presentation from each individual station to present to the public. A call for show of hands to work on bringing this forward.

Roger spoke about the NEQP. He has spoken with ARRL and they are not expecting to have

the building reopened in time for this event. It is the first weekend in May. Therefore, this event participation at ARRL headquarters is cancelled for 2020.

Charlie asked about the status of the new drives for the club computers. Harlan reported that they are installed in the machines and are working well. The tax payment for these drives has been asked for reimbursement. This will be investigated further. There is a minor problem with 2 of these units of a lag on startup. This is also to be investigated as soon as possible.

Harlan brought up about the need to elect a Secretary as well as our upcoming regular annual elections.

Dan mentioned about a condolence card to be sent to Paul Kleppin's family upon his passing. He was a two-time President of the club. This will be done.

Dan spoke about the website updating. It was the general feeling from all that we were not wanting to impose on Jim's time with this commitment. Jim Ritterbusch was present on our zoom meeting and he is willing to continue working on this. There are some updates to the website that will need some attention in the near future. Updating with up to date photos is one. Also, the new mailing address should be listed.

The Reflector is presently up to date with the latest membership list. John has corrected the error that occurred with the elimination of some names.

Dan asked about changing the Reflector to a hosting format similar to Groups io. John Ahle mentioned about something included with the Microsoft package.

Harlan spoke under New Business about upcoming elections and the new way that we will probably be holding elections. Marcus mentioned that he will not be available for reelection due to other commitments. It was clarified that, with our new Resolution, we could carry on all business electronically that we normally perform in person.

Charlie proceeded to give a very interesting presentation on Drones.

Meeting adjourned at 9:30pm.

Respectfully submitted,

Gary S. Adams - N1GSA Secretary Protem

April 24 CARA Monthly Planning Meeting

Meeting called to order at 7:30pm by Pres.

Marcus Swearingen.

First topic of discussion was the website update. Jim R has indicated that he was willing to continue with himself being webmaster. There are updates that have been forwarded to Jim for inclusion on the site. Jennifer, from the Brookfield Library, should be notified of this. She had been contacted about her willingness to help with our site.

Marcus has not had time to make any progress with Office 365 for non-profits. John M will see if Mike Walters could help with this.

Marcus has made some phone attempts to contact Terrywile Park regarding Field Day. As of this point this event is still up in the air.

The ARRL has brought forth some possibilities about possible alternatives. There is a possibility for a friendly competition between CARA and NARA. There are many challenges as well as possibilities for doing this. There were some concerns about having an open Zoom chat with

video running during the event. Also, many are members of more than one club. Which one do you work for? It was the consensus, that your primary should be your choice. Marcus, Dan, and Charlie will do some further investigation to come up with a workable plan.

Payment for the NEQP Plaque was brought up. This has been supported and paid for by CARA for many years. There was a bill submitted that has been voted upon and passed. This would go to KIKI, Tom Frenaye. Gary will forward the date and vote information to Charlie for payment.

Roger spoke about the W1AW NEQP at Newington this year. He recommended that everyone work this event from their home station. Marcus will put a notice about this out on the club reflector.

There was concern about a budget for the remainder of 2020. With only 2 weeks before the Regular May meeting it was felt that this would be too aggressive a goal to be achieved. Charlie will get the major regular expenses totalized.

A spending moratorium was brought up. As we do vote on virtually every expenditure presently, it was generally deemed not necessary at this time. We do not want to handcuff ourselves. We just need to be cognizant of our financial situation.

There was a question about alternative methods of fundraising. This should be something that we should do all be doing with a genuine effort. Our activity for Emergency Communications could be used as an informational tool to better inform the public of our uses. This is something that could be instrumental in getting future grants and monies.

The active membership list has 46 members.

Mike Walters – W8ZY, is our latest voting member.

There are 11 members that have been deleted from the reflector. Hopefully, this brings us up to date.

The Executive Committee has been working on a list for nominations. Harlan will accept and forward any names to be placed on the ballot.

It was brought up that the reflector be moved to Groups io. There was also the possibility to move to Microsoft Teams. Dan thinks that Groups is the better choice due to its increased capabilities. Dan and John will investigate these and come back with recommendations.

The CARA brochure that is being used is from 2017. We could update this with some new pictures and information. Marcus has done some minor updates. He will send this to Dan for further review. Charlie reminded that the new mailing address should be included.

John M spoke about a program with NARA and CARA to further education regarding radio licensing. There has been space at Pettibone Community Center in New Milford allotted for use of NARA for this type of usage.

Bud has been scheduled to do a presentation on Boat Anchor radios. He will be contacted to see if this is possible and if not, other programs could be scheduled.

Possible interest in holding a Zoom net over the course of the week.

Meeting adjourned at 9:30 pm

Respectfully submitted.

Gary S. Adams - NIGSA Secretary Pro-tem

CARA Officers and Directors Election:

Nominations go to W1QH in May and June.
Annual election in June.

Elections are coming up! Whom do you wish to be our leaders?

The Election Committee (Directors) has come up with a partial slate of Officers, but it is not complete.

We have a way to go and time is getting short.

I (W1QH) will serve as the collection point for nominations, since we cannot meet in person.

Please e-mail me with suggestions for nominations and I will post these nominations on the reflector to be seconded as per our policies. A nomination cannot be validated unless it is seconded.

After the postings of potential candidates, please e-mail me with those candidates you wish to second.

I would like to see this list of candidates completed by May 8th so ballots can be prepared for the election meeting on June 12th. (my e-mail: w1qh@arrl.net)

73

Harlan Ford - W1QH, CARA Director

Last Month's program:

de W1QK

CARA's Treasurer, Charles Setaro – KC1IBR presented an interesting overview on Drones, which was well received by those present.

Some references provided included the FAA's link:
https://www.faa.gov/uas/recreational_fliers/
<https://www.congress.gov/115/bills/hr302/BILLS-115hr302enr.pdf> yields a 450 page law.

Some memorable solid pillars of operational practices:.. Fly at or below 400 feet, Visual Line of Sight Only (VLOS). Use a VO (Visual observer) to assist you when flying if available. Yield to manned aircraft at all times.

The FAA at:
https://www.faa.gov/regulations_policies/advisory_circulars/index.cfm/go/document.information/documentID/1036029 cites Advisory Circular 91-57b **Exception for Limited Recreational Operations of Unmanned Aircraft**, which puts forward many points of regulations.

https://www.faa.gov/documentLibrary/media/Advisory_Circular/Editorial_Update_AC_91-57B.pdf

This Month's program:

ARRL Radiosport and Field Services Manager, Bart Jahnke - W9JJ, is unable to join us.

But Paul Bourque - N1SFE, ARRL Contest Program Manager, will be joining our CARA Meeting Friday, May 8 via zoom.

He will talk about contesting; and especially this year's Field Day. So have your questions ready!

Bud - W1NSK
CARA Program & Activities Committee member



06/12/2019

Paul Bourque, N1SFE, of Middletown, Connecticut, has joined the ARRL Headquarters staff as Contest Program Manager. He succeeds Bart Jahnke, W9JJ, who recently was promoted to the post of ARRL Radiosport and Field Services Manager. Licensed since 1994, Bourque's interest in radio began when, as a youngster, he listened for distant AM stations, and he later developed a career involving various aspects of broadcasting.

"Originally, I wanted to be a DJ, but I ended up being drawn to the technical/engineering side of the radio business," Bourque said. His journey into Amateur Radio started during his time as the host of an overnight free-form rock music show at WWUH Radio at the University of Hartford, and the station's general manager, John Ramsey, W1JNR, pushed him to get his license.

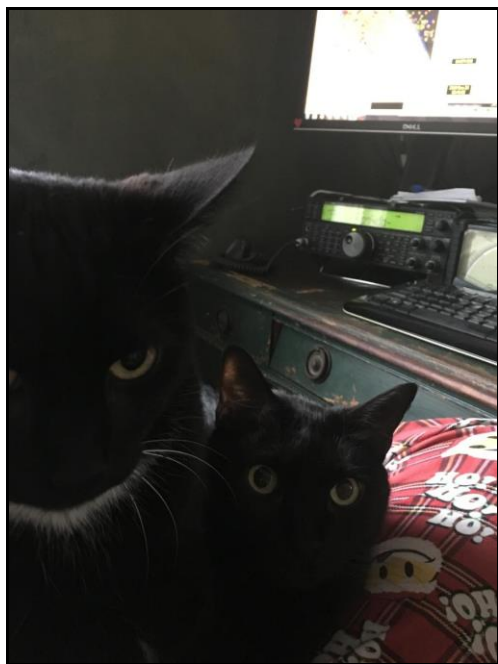
Because being an Amateur Radio operator had opened several professional doors for him, Bourque said, "The opportunity to give back to this hobby as Contest Program Manager really appealed to me."

Bourque, who grew up in Newington, remarked that working at ARRL Headquarters "is like coming home." In his early years as a radio amateur, he was more of a casual contester, and it "was about making contacts," he conceded. Today, though, he has become passionate about getting people active and on the air. As Contest Program Manager, Bourque wants to find ways to get newer hams into contesting, and to dispel the idea that you need tons of equipment to participate.

Outside of Amateur Radio, Bourque's his other interests include cooking, astronomy, photography, and meteorology.

My first interest in radio started as a kid, when I used to love trying to catch DX on the AM broadcast bands in the evenings from my parent's basement. I always loved the "magic" of radio, and was always interested in the why and how it all worked. I guess radio has been in my blood since! I've been a ham since getting my no-code Tech license in 1994, upgraded to General in 2017 and Extra in 2018.

I'm currently employed as Contest Program Manager at ARRL. I'm fortunate that I'm able to combine my hobby with my career, and give back to a hobby that I'm passionate about. I grew up in Newington, CT- not far from league HQ, so returning to Newington to work at HQ is sort of like a homecoming for me. I have previously been employed in the paging industry and broadcasting, as well as being a repair technician and worked in the customer service industry.



The "shack cats" Humphrey and Henry, keeping the operator warm while working a little FT8.

My interests are HF/VHF/UHF operating, including contesting- I'm more of a casual contester, I'm in it for the fun!. Currently operating on the 15, 17, 20 and 40 meter bands on HF and working on my WAS and DXCC. You'll often find me checking into the 40 Meter NATA Net, OMISS 40 Meter Early Net, as well as the 3905 CCN 40 Meter Early

Net. I'm active on FT8 on 15, 17, 20 and 40 meters.

I do enjoy the occasional ragchew and working DX, and love collecting paper QSL cards, as well as confirming QSO's on QRZ and Logbook of the world. I especially enjoy collecting cards from DX stations, and special event stations.

QSL INFO: I upload my logs to QRZ and LOTW on a daily basis, and Clublog a couple of times a month. If you'd like a card, just send one, no SASE required, I will reply 100%! Of course, if you'd like to send an SASE and cover postage, that'll be great too!

Update 04-26-2020: All VHF Contest logs from 1995-2001 have been transcribed from paper logs and entered into LOTW. If you made a contact with me from those days, I'm looking for confirmations from several states in LOTW: ME, VT, NY, NJ, and PA. I do have paper QSLs from stations from some of those states, but would love a LOTW confirmation if possible.

EQUIPMENT: Primary HF rig is a Kenwood TS-590S, with a secondary/backup rig of an Icom IC-718. I recently acquired a used Icom IC-7000 for use in VHF contests. Antennas are homebrew wire dipoles- a 15-20-40 meter fan dipole (pictured) and a 17 meter monoband dipole antenna, as well as verticals and Yagis for 2m/1.25m/70cm. For VHF/UHF I have capabilities of operating on 6 Meters all modes, 2 Meters all modes, 1.25 Meters FM and 70 Centimeters all modes. Currently only operating mobile on 220 mHz on a handful of local repeaters in the central CT area, mostly 224.22 and 224.94.

I'm also a DJ at non-commercial radio station WWUH 91.3 FM in West Hartford, CT from the University of Hartford. I guess radio just in in my blood! I hosted an overnight freefrom rock show for several years. You can still catch me doing a fill in show every now and then, but no I longer host a weekly show.



QRZ World Continents Award (Mixed Phone, 20/40 Meters Digital, 20/40 Meters Mixed, 40 Meters Phone) #20378

Source: www.QRZ.com

My other interests are cooking, astronomy, photography and weather. I installed a weather station at my QTH which publishes to the internet every 5 minutes to Weather Underground, CWOP, PWS Weather and my QSL.NET page using a nifty little program called WeeWX, which runs on a dedicated Raspberry PI credit-card sized computer. For weather station information check out the Pameacha Pond Weather page, and the new WEEWx skin, NeoWX (which is a work in progress) here.

I've also got a bunch of more info about me at My QSL.Net Page.

Hope to chat with you or work you in a contest soon!

73 de N1SFE

Member of:

ARRL- The National Association for Amateur Radio, OMISS (Old Man International Sideband Society) #11986, 100 Watts and a Wire #2769, Bandhoppers #103

Awards:

ARRL DX Century Club (Mixed) #64613, ARRL Worked All States (Mixed) #62739, IARU Worked all Continents (Basic), QRZ DX World Award (Mixed Digital, 40 Meters Digital) #9413, QRZ US Counties Award (500 Mixed, 500 Digital, 250 Phone) #9488

QRZ Grid Squared Award (15/17/20/40 Meters Mixed, 17/20/40 Meters Digital, 20/40 Meters Phone) #19405

CARA was honored to have both Bart – W9JJ, ARRL Field Services Manager, and Paul – N1SFE, ARRL Contest Program Manager, visit our Field Day site at Tarrywile last year:



W1QH donation to BPVFP installed:



To: Fegley Dan, Harlan Ford, ABIWV Marcus
Tue, Apr 28 at 7:56 PM

The guys brought the ladder truck over today and we installed the replacement scanner antenna on the pole. Works extremely well.

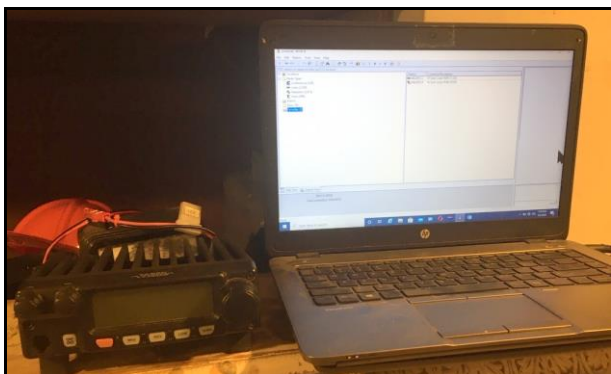
Thank you to the CARA club, and Harlan Ford for donating the Discone Scanner Antenna to the Ball Pond Volunteer Fire Department.

73 - W1JGM

W1JMA donations to CARA:

I received some donations for the club this week from our member, John Ahle - W1JMA.

John donated a 2 Meter ICOM portable, an 8 bank AA NiCd battery charger, a G5VR Senior antenna, and a Yaesu FT 2800M mobile radio.



W1QI Echolink Station installed at W1JGM's QTH

John's donated Yaesu mobile radio will serve as our Echolink radio, replacing the current HT.

Thank you, John for your generous donation and support of the CARA club.

73 – W1JGM



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

CPN Net Manager: Tom - WX1T



Weekly CARA 2M NET:

W1QI 2M Repeater – 7:30 pm Sunday

**Candlewood Amateur Radio Association
Net Control Log**

*Sunday - 7:30PM Local Time - 147.300MHz -
PL tone 100Hz*

April 19, 2020

Time - Start: 1930L Time End: 2000L

WX1T – Tom, New Fairfield, Net Control

Call Sign Name - Location

<i>KO1F</i>	<i>Oscar Danbury</i>
<i>KD2HAP</i>	<i>Charlie Wingdale, NY</i>
<i>W1JMA</i>	<i>John Ridgefield</i>
<i>W1QH</i>	<i>Harlan Danbury</i>
<i>W1QK</i>	<i>Daniel Brookfield</i>
<i>W1JGM</i>	<i>John New Fairfield</i>

W1LCR Frank Goshen
 N1IBQ Ronald Bethel
 N2OHH Vincent Danbury
 KC1AXP Bill Bethel
 WR1Z Gregory Roxbury
 N1RV Eric New Fairfield
 K1SZO David Danbury

Total number of check-ins (Including Net Control): 14

May 3, 2020

Time - Start: 1930L Time End: 2000L
 WX1T – Tom, New Fairfield, Net Control

Call Sign Name - Location

KO1F Oscar Danbury
 W1JMA John Ridgefield
 W1QH Harlan Danbury
 K1SZO David Danbury
 WA8UNS Thomas Ridgefield
 KC1IBR Charlie Danbury
 W1JGM John New Fairfield
 KB1ZIR Eric Danbury
 N2OHH Vincent Danbury
 WR1Z Gregory Roxbury
 K1RHH Ken Danbury
 W1LCR Frank Goshen
 W1AS Alan New Fairfield

Total number of check-ins (Including Net Control): 14

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

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

Upcoming Contests, Hamfests & Meetings:

May 8 : Monthly CARA meeting via Zoom
 May 9: AR QSO Party 160M Distance Challenge
 May 11: ARES Region 5 South meeting via Zoom
 May 16: King of Spain contest - CW

May 22: May CARA Planning Meeting via Zoom
 May 29-31: CQWW WPX CW contest
 May 13, 20, 27: CWOps CWT Minitest Regular Sessions - 1300Z, 1900Z, 0300Z

June 5: June Capers input deadline

Complete Contest calendar at:

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

New England and other local hamfests:

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

Upcoming CARA Calendar:

May 8: CARA May Monthly meeting video conference via Zoom

May 22: Monthly planning meeting – via Zoom

June 5: June Capers input deadline



Please read this important update from our convention chair, Bob DeMattia, K1IW, regarding the impact of the COVID-19 pandemic on the 2020 convention:

Hello All,
 I hope this message finds you safe and healthy. After long consideration, the convention committee has decided to postpone the 2020 HamXposition to the weekend of November 6th through 8th.

There are several reasons for this, the first and foremost is the health and well-being of our attendees. In addition, there are many logistical problems with holding the convention in July, even under the most favorable conditions of the pandemic emergency being over by then.

We believe it is unlikely that the state's ban on large gatherings will be completely lifted by the end of July.

Even if it were, we believe attendance will be severely impacted due to lingering (and quite appropriate caution).

Almost all of our exhibitors are unwilling to commit to anything prior to June.

The convention is subject to penalties for cancellation. The penalties increase as we get closer to the convention date. By moving to November, we move out the schedule on these penalties. **This will allow us to reassess the viability of the convention in early August. By then we will have further insight into prevailing conditions.**

The November weekend was the only one available to us - and could be lost to another group if we did not act on it.

We know that many look forward to attending each year, and have probably grown weary of all the cancellations of events like these.

However, given the reality of the situation, we believe it is in everyone's best interest to postpone.

Stay safe & 73,

Bob DeMattia, K1IW

Chairman, Northeast HamXposition 2020/The ARRL New England Convention

<https://hamxposition.org/>



YCCC News

Club members stay in touch through the club newsletter called the [Scuttlebutt](#), and through the Internet.

The value of YCCC membership is the opportunity to work side by side with the best. Cooperation and teamwork spiced with the strong spirit of competition is at the heart of YCCC accomplishments and contest victories. The YCCC is an [ARRL](#)-affiliated club.

YCCC Meeting was held April 11, 2020 via Zoom.

More information on the YCCC website:
www.yccc.org

From the YCCC Reflector:

PS Best practice?
From: John Vogel
Date: Tue, 14 Apr 2020 16:01:00 EDT
Is it considered best practice to combine radios and all the desktop accessories into a single beefier PS?

Or is using a separate smaller PS for the 12v accessories and using a larger PS for just the radio?

I'm not concerned with the footprint or the economics.

I am concerned about potentially increasing noise or RFI, or ground problems or any of that.

Looking at several spectrum displays here it's clear I've got some noise sources to hunt down here.

Tnx - John, N1PGA

5b.

Re: PS Best practice?

From: Greg Zenger

Date: Tue, 14 Apr 2020 20:57:28 EDT

I dont have a simple answer, but I have a lot of raw thoughts that I am just going to dump below. As a power engineer who worked previously as a systems engineer and electromagnetic compatibility engineer (and still do at times), there are definitely some conflicts in my ideas.

As a systems engineer I like the idea of 1 power supply. actually two, one for the equipment being used and a spare on standby. Or a group of power supplies that can be paralleled in an N+1 configuration with the ability to drop one out our add a new one in at the push of a button.

As an EMC engineer, I like the idea of each radio having its own supply. This can act as a buffer to somewhat isolate each radio from one another.

Linear supplies are best, but are large, inefficient (costs \$ to run and makes heat) and expensive. Inefficiencies can be problematic in ways that make noise, more on this below.

Having multiple switching supplies can be problematic, especially of different designs. Conducted noise from one can get back on your AC bus and interact with another supply. Likewise having multiple radios on one DC bus can cause conducted emissions from one radio to another.

I think there is a lot of value in being able to transfer a radio or device from DC bus from a power supply to battery bus (even if the DC bus is dedicated to that radio). This can be done by a make-before-break relay (or two normal relays properly sequenced). A battery is the cleanest source of power. by being able to do this you can check on the fly if a particular spur or increase in background noise is being caused by your power supply by means of conducted emissions from another device. once on battery power you might have the ability to turn off the power supply and see if radiated emissions might be the culprit

instead of just conducted emissions. Note conducted emissions can happen on the inputs and outputs of power supplies and anytime there is a conducted emission the wire that the conducted emission is on can radiate.

When it comes to power supply selection, the concerns are largest with switching power supplies, where switching frequencies and their harmonics are of primary concern. Linear supplies can have problems too, such as noise caused by oscillations induced by ripples from fluctuating input or output voltages, in a ham station these fluctuations are often caused when a station transmits a non-constant power transmission such as CW or SSB. Linear supplies are more susceptible to this due to their simpler designs and lower efficiencies, I²R losses on the AC bus are larger from linear supplies, and the lower frequency conducted noise like this is harder to filter than the high frequency noise from switchers. These I²R losses can be especially bad at some ham shacks due to the high transmission line impedance seen at residential locations.

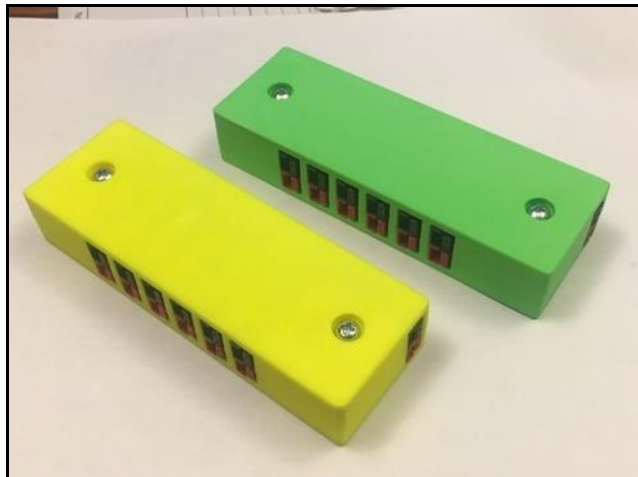
The only free lunch is a really big battery. If you have a spectrum display, you get to see all the nasties. you can spend forever trying to chase them down. In the EMC world, suppressing one spur or noise band usually means causing one to pop up somewhere else. Im really keen on being able to switch certain loads to battery, (in a perfect world, each to their own battery, eliminating conducted emissions on the DC bus between equipment). If im trying to work that rare mult, and there is a spur right on top of him, switch to battery, kill the spur, work him, put him in the log, switch back to AC derived power. Same goes for when the pileup gets thin and the only ones calling are down in the mud. Switch to battery, improve your noise floor by a few dB... like putting hearing aids into an alligator. The battery only needs to last a few minutes, not all weekend.

When it comes to smaller 12v accessories, be careful, some contain crummy switching supplies for their internal electronics. This is especially true for items not specifically designed for the ham community.

The biggest issue is small 12v items that use an internal switching supplies, especially items that aren't ham specific.

I'm sorry if the above seems like a disorganized rant. I'll try to follow up with any questions you or anyone might have

12v power at the operating position



From: John Vogel
Date: Thu, 23 Apr 2020 15:05:17 EDT
I finally found a pretty good way to finally organize the distribution of power to the multiple little 12v devices in the shack.

On eBay as item #173207301852 from the seller "thecrazyham"

They're only \$6.00 each and sold as just the housing. You use your own Anderson power poles and daisy chain crimped wiring.

I used the 30amp pins with the larger barrels to accept the doubled up wire in the daisy chain. You'll need to fuse separately as you see fit.

John, N1PGA

Happy Birthday

From: [Jack Schuster](#)
Date: Mon, 27 Apr 2020 07:20:28 EDT

On this day in 1791, April 27, Samuel Morse was born in Charlestown, MA. JACK - W1WEF



CARA used N1MM+ Contest Logger during the 2020 Winter Field Day.

For a free download, visit:

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

Reminder:

CARA is registered for ARRL Affiliated Club Competition. Use: **Candlewood ARA** when submitting your Cabrillo Log.

In order to make sure the club results are accurate and fair to all, the ARRL Contest Branch is renewing its effort to help clubs comply with the rules. (See [section 8 of the General Rules for All Contests](#) at www.arrl.org/general-rules-for-all-arrl-contests.)

Here are the three changes:

- Online uploading of club "Eligibility Lists",
- Use of six-character grid locators as locations, and
- Deadline for submitting eligibility is now the contest start time.



CT ARES News:

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 203.5 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.

CT ARES Digital Net

This Wednesday (May 6) is the first Wednesday of the month and our Winlink practice. This month we return to the folks at the Newtown EOC – KB1IVQ, as our control station. Here are the details for the practice.

Send a message to KB1OVQ

1. Send it before 7:00 PM on Wednesday May 6th.
2. Message should contain if possible a Red Cross 213 format response to the questions below.
 - a. Your Callsign
 - b. Your Location
 - c. How you connect .. VHF, HF and mode if you know
 - d. What are you looking forward to after the restrictions are lifted?

Please send those messages, and remember we want to use the Red Cross 213 format.

I hope to see lots of folks responding.

Thanks, Mike, W8ZY CT ARES SEC



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

ARES HF Digital Net

In addition to the Winlink event this week, we will also have another HF digital practice net. We want to practice the HF digital skills in case other ways, like Winlink that still uses some infrastructure, are not available. Here are the details for the net:

HF Digital Net Saturday May 9th Start 18:00

Frequency: 3.59250 MHz.

Mode: MT-63 1K L

Waterfall centered on 1500

Attempt to pass simulated message using FLMSG and the RC-213 format.

- a. Your callsign
- b. Your location
- c. What you are looking forward to as soon as the restrictions are lifted.

Remember that the Waterfall is to be centered on 1500. That puts us all on the same spot.

Last time we had 15 on the net and I am hoping to see more.

Thanks - Mike, W8ZY CT ARES SEC



American Red Cross

Amateur radio operators affiliated with the American Red Cross will conduct a **Nationwide communication drill on May 30.**

The drill will simulate the types of message traffic that are typical of a national disaster response, such as a hurricane or wildfire. Hams will utilize digital modes to move a variety of Red Cross data, with special focus given to methods that do not require infrastructure, such as a repeater or the internet.

The drill features a local option where ARES organizations can work with local Red Cross

chapters to drill local and regional functionality.

For more information, [contact](#) ARRL Rhode Island Section Emergency Coordinator Paul Silverzweig, W1PJS. -- Thanks to Brian S. McDaniel, N4AE, executive director, American Red Cross of the Illinois River Valley



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 a pix of your station, antennas, mobile installation, etc. and send it in!

Bud Kozloff <w1nsk@hotmail.com>

To: Dan Fegley, Marcus Swearingen, w1jgm@aol.com, Gary N1GSA Adams, CJS
Fri, May 1 at 7:04 PM

I invited Dennis, W1UE, for a Joint YCCC & CARA Meeting for September. Awaiting response. I can do a Boat Anchor presentation for October.

Bud W1NSK
CARA Program & Activities Committee Member

2020 CARA Ham Exam Schedule:



2020 Amateur radio exams sponsored by CARA at the Stony Hill FD. Bethel:

Note: no update on the status of these exam sessions submitted to Capers – Editor.

Starting at 11:30 a.m.

Walk-ins are welcome, but it's helpful if candidates e-mail Jonathan Bernon, AJ1U, to AJ1U@arrl.net

The following dates (Saturdays) for 2020 have been coordinated with the Stony Hill Firehouse Meeting Room scheduler:

June 6, September 19, December 5

Thanks & 73,
Jon – AJ1U
CARA VE Team Coordinator

Other upcoming exam sessions:

Status unknown as of Capers publication date. Check with sponsors. – Editor.

*The following is **not** a paid advertisement. CARA is an ARRL Affiliated Club, and an ARRL Special Service Club, and we encourage you to consider joining the ARRL to support the programs that the organization sponsors – Editor.*



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- [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 E-Letter* (monthly public service and emergency communications news), the *ARRL Contest Update* (bi-weekly contest newsletter), Division and Section news alerts – and much more!

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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.



So Now What? Podcast

<http://www.arrl.org/so-now-what>



April 16, 2020
Editor: [Rick Lindquist, WW1ME](#)

New Volunteer Monitor Program is Up and Running

After kicking off on January 1, the new [Volunteer Monitor Program](#) has ramped up to operational status. A "soft rollout" of the program began on February 1, designed to familiarize Volunteer Monitors (VMs) with issues on the bands and to put into practice what to report -- and what to ignore, based on their training. The VMs will not only be looking for operating discrepancies, but for examples of good operating. The VM program has, at least for the moment, put



Riley Hollingsworth, K4ZDH, back in the center of amateur radio enforcement as the Volunteer Monitor Coordinator (VMC). He was brought aboard to get the program up and running, and ARRL will eventually take over the VMC function.

Hollingsworth is using a system called *VMTRAC* -- developed by a VM -- to measure the work of VMs and determine instances that qualify for good operator or discrepancy notices, referral to the FCC, or follow-up with FCC requests to the VM program. Hollingsworth reported that during March, the 165 active VMs logged upward of 2,300 hours of monitoring on HF, and nearly 2,000 hours on VHF-UHF and other frequencies.

"I am extremely pleased with the number of hours devoted to monitoring this early in the program," Hollingsworth said. No stone is being left unturned. Two VMs constantly monitor FT8 watering holes and have developed programs that alert them if a licensee is operating outside of privileges accorded to that license class or if a license has expired. "We have 30 open cases, five of which are good operator cases," Hollingsworth said. "Regarding open cases relating to rule violations, none have yet had to be referred to the FCC." He said he's experimented with letters, telephone calls, or emails to the subjects of



Riley Hollingsworth, K4ZDH.

discrepancy reports where they could be identified. While he's still waiting for replies to his written correspondence, he has received responses to his calls and emails, and the violations have either stopped or were explained. "They were violations such as expired licenses, Technicians operating on General frequencies, unauthorized use of a call sign, and deliberate interference," he said.

One case "being groomed for FCC referral," he said, involves long-standing interference to a repeater in the Philadelphia area by someone using an unauthorized call sign. Hollingsworth said he worked with net control operators of nets on 75 and 40 meters that had been suffering serious interference, and so far the solutions are working.

"It is becoming apparent that if informal contact can be made by the VMC with a known offender, the problem can sometimes be stopped," Hollingsworth said. "We do not want to call upon the FCC unless absolutely necessary." Read [more](#).

ARRL Announces New Benefits for Members

ARRL members will now receive digital access to four ARRL magazines beginning with their May/June issues.

Joining *QST* and *On the Air* magazines on a digital platform will be the bimonthly editions of *QEX* -- *The Forum for Communications Experimenters* and *NCJ* -- *National Contest Journal*. *QEX* includes articles, columns, and other features ranging from construction projects to more advanced technical information in radio theory and practice. *NCJ*, published since 1973, targets radio amateurs active in radiosport. *NCJ* includes scores, technical articles, contributions from top contesters, and advice for beginners and seasoned radiosport enthusiasts alike.

"Feedback from ARRL members and our readership surveys has shown that our magazines are one of the most valued member benefits," said ARRL Publications Manager Steve Ford, WB8IMY. "Our investment in digital access provides another channel through which we can deliver content to our members across the expanse of interests and activities in amateur radio. All members can enjoy specialized content and a high-quality reading experience whether at their desk or on the go. Offering this suite of digital magazines is an opportunity for us to give members more of what they want while adding value to ARRL membership."

ARRL's digital magazine editions provide replicas of the printed editions with added functionality, allowing users to fully search issues, enlarge pages, share articles, and more. The free *ARRL Magazines* app also

supports downloading complete issues onto your mobile device or tablet for offline reading.

Members who have elected to receive a printed *QST* or *On the Air* as part of their membership benefits will continue to have this service. Members may not substitute a



print subscription of *QEX* or *NCJ* as their delivered magazine member benefit. Print subscriptions of *QEX* and *NCJ* will continue to be available at additional cost for those who want to receive them.

All four magazines are easily accessed through any web browser from [members-only links](#). The free *ARRL Magazines* app is available for iOS and Android in the Apple App Store and Google Play.

If you're already an ARRL member and previously created an **arrl.org** website account, your username and password will provide you access to the digital editions, whether online or in the app.



Members who have not previously registered will need to [create a new account](#). If you've forgotten your password, visit www.arrl.org/forgot-password, or email circulation@arrl.org for assistance.

Previous and prospective members can [join ARRL](#) and take advantage of this and other membership benefits.

ARRL Podcasts Schedule

The latest episode of the *On the Air* podcast (Episode 4) focuses how to create a family emergency

communications plan and includes an interview with Dino Papas, KL0S, about attaching coaxial connectors with crimping tools.

The latest episode of the *Eclectic Tech* podcast (Episode 5) includes an interview with ARRL Laboratory Manager Ed Hare, W1RFI, about wireless power transfer technology, as well as a discussion of digital meteor scatter and an interview with Michael Lavelle, K6ML, about the new distance record at 122 GHz.



The *On the Air* and *Eclectic Tech* podcasts are sponsored by Icom. Both podcasts are available on iTunes (iOS) and Stitcher (Android) as well as on Blubrry -- [On the Air](#) | [Eclectic Tech](#).



Editor: [Brian Moran, N9ADG](#) April 29, 2020

Block off Thursday, May 14, to attend the FULL DAY of 2020 Contest University. This year is all online due to social distancing requirements and free to anyone to join via Zoom. Registration details are on the [Contest University website](#). Tim, K3LR, Contest University Chair, assures that there is capacity for anyone who registers to be able to attend. There is no better opportunity to [learn directly from the masters](#). The day will start at 8:30AM EDT.

In the May 2020 issue of *QST*, Scott, K0MD, guest authored the "Eclectic Technology" column with a piece entitled "Artificial Intelligence and Radio Contesting." Scott speculates on a new feature you might find in your logging program in 2030: A contest mentor of sorts that uses AI (Artificial Intelligence) techniques to match your contest goals with real-time analysis of band conditions and available contacts from radio data. He foresees that current technology, applied to this purpose, could provide a contester better situational awareness and

actual advice, so the operator could make better decisions, and ultimately, have more fun.

Tim, K3LR, Contest University Chairman, has announced that "Contest University USA 2020 will be held online via Zoom on Thursday, May 14, 2020" and will be **free** to stream for all, starting at 8:30am EDT. **Pre-registration is required.** The [outline of the day has been posted online](#). At the end of the day (6 pm Eastern Time) "Dave, K3ZJ, from *CQ Magazine* will present the 2020 CQ Contest Hall of Fame awards - live on the Zoom conference." A registration button for the Zoom video conference has already been posted on the [Contest University website](#). Tim expects to be able to accommodate all registrants!

According to Jeff, WK6I: "Sprints are popping up everywhere like the wildflowers here in the Sierra Nevada...." and includes [weekend RTTY sprints](#), [weekday RTTY sprints](#), as well as the [RSGB Hope QSO Party RTTY segments](#). (WK6I via [RTTYDigital Group](#))

To post individual scores for the Indiana, New England, and 7QP to the appropriate contests on 3830scores.com, check out [this N1MM Logger+ group message from last year](#) by NA6O with a Excel spreadsheet originally written by K0RC to do the score splitting for you. Delaware's score calculation is left to the reader.

Tom, N1MM, notes that the Tuesday April 28, 2020 *N1MM Logger+* update "will contain improvements to the logging program's wide area networking capabilities. This version includes improved support for the *Hamachi VPN*, as well as support for the *SoftEther VPN* protocol." The *N1MM Logger+* team is also going to host a Zoom teleconference on April 29 for those interested in a "practical exercise where attendees will install, configure and connect

their *N1MM Logger+* stations to a hosted VPN. The teleconference will be conducted on Wednesday, April 29 at 3pm EDST (19:00 UTC)." Attendees will be working through the concepts in the downloadable document entitled "[Distributed Multi-Op Contesting using N1MM+ with a Hamachi VPN 010](#)." For more information and registration information see the [N1MM Logger+ group message](#).

[Touch Portal](#) is a "macro remote control for PC or Mac" that some hams are using to better automate their ham shacks. Buttons are placed on the screen, and "execute several actions with one press." The program works across a wide range of operating systems and devices, including those with older versions of operating systems, so you could find renewed purpose for those old smart phones or tablet devices. There's a free version that may well do everything you need.

According to an article in the [May 2020 PVRC Newsletter](#) by Frank, W3LPL, "The Solar Minimum Likely Occurred Christmas Eve 2019," "Some of us have noticed a slight uptick in solar activity since Christmas Eve when two Cycle 25 spots -- AR 2753 and AR 2754 -- appeared simultaneously after 40 consecutive spotless days, the longest such stretch of Cycle 24. Only one of the five subsequent sunspots -- AR 2757 -- has been from old Cycle 24. Every sunspot over the last 12 months has been relatively weak and has had little effect on propagation. Although the date of solar minimum and the beginning of Cycle 25 won't be official until later this year, its highly likely that it occurred on Christmas Eve 2019. The next important event to look for is an energetic long-lasting Cycle 25 sunspot, hopefully this year. (from the Potomac Valley Radio Club *PVRC Newsletter*, May 2020)

Capers: Swap and Shop

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*CAPERS is the monthly newsletter of the
Candlewood Amateur Radio Association
Editor: Dan Fegley, W1QK*



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 as long as 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 last Friday of the month preceding month of issue, *unless otherwise specified*.

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

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.

Courtesy of: The Mahoning Valley Amateur Radio Association's Award-Winning monthly newsletter: "Voice Coil" <http://www.mvara.org/News/Current.pdf>

Need a feedline cable for a Cushcraft A3S or similar Tribander with ring terminals?

Your CAPERS Editor discovered this product from ABR Industries when researching products to connect a coaxial cable feedline to a Cushcraft A4S Tribander.

*Provided only for sharing information – **not** a commercial endorsement.*



RG213/U w/PL259 to w/Ring Terminals – 3 Ft. \$24.95

[Description](#)
[RG213/U Coax Mil-Spec Type.](#)
[PL259 one end, other end: Ring Terminals](#)
[Weather-Proof HS Tubing each end.](#)
[Split 4" or your choice, denote at order entry.](#)
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[last longer, performs better because of the solid PE dielectric.](#)
[Overall Diameter: .405"](#)
[Weight 10#/100ft](#)
[All cable are fully tested. Hi-Pot® and continuity.](#)

Social Distancing Shack Project

From: Dale Drake

Date: Thu, 16 Apr 2020 09:03:55 EDT

Even for a retiree this social distancing is pretty boring and there's no rare DX on the bands to chase so I decided to build an automatic remote antenna switch.

I had been using a manual remote antenna switch (WX0B Rat Pak) for my low band antennas. I was sick of forgetting to switch the antennas when I changed bands and ended up transmitting into the wrong antenna so I had the thought to automate the switching. Turns out that DXLabs Commader and N1MM Logger + both can talk to an automatic antenna switch through a parallel port using BCD. Rather than go out and buy a decoder to use I designed and built my own. I have attached the schematic and photo. Hopefully the groups.io will let them pass. If not I'll try to post them to the Files section on the Groups.io page.

My automatic switch still uses the WX0B box at the antenna end but replaces the manual switching box in the shack. The control box can be used in Auto mode or Manual mode. In Manual the rotary switch controls the antenna choice the same as the WX0B box did but in Auto mode the logging software talks to the rig and reads it's transmit QRG through CAT. Then the logging software sends a BCD code to my control box to select the correct antenna. The logging software help files explain how to set it up to decide which antenna to select for any QRG. It's very flexible in that respect. You can even select different antennas for different parts of the same band.

I've been using it for a few weeks now and can't wait to try it out in a contest.

Stay safe and 73,

Dale AA1QD



New England QSO Party - 2019 Results

The final standings for the Single Operator High Power race showed **Dave/K1ZZ** earned the number one position. Dave had 1218 CW QSOs and 480 on SSB, with a multiplier of 97 from his Connecticut QTH. His 282,464 points even beat the top Multi Operator score by a small margin! The other top five SOHP finishers in New England were **MartinAA1ON** from Massachusetts (195,133 points), then **Randy/K5ZD** at **AK1W**, also in Massachusetts (187,746), **Mark/K1RO** in New Hampshire (171,275), and **Allan/NR1X** in Connecticut (158,464).



The Low Power battle went to **Ed/K1TR** from New Hampshire, with 944 CW and 12 SSB QSOs, with 74 multipliers for 140,600 points. Second place was earned by **Dave/K1VUT** in Massachusetts with 119,544 points from 879 CW QSOs and 68 multipliers. **Dan/W1QK** was close behind for third place with 114,048 points from home in Fairfield County, CT after spending the first few hours operating in the harder to work Litchfield County as NG1R. The top five was rounded out by **Ed/K1ZE** from Connecticut and **Bruce/K1BG** from Massachusetts.

The Single Operator QRP category is where **Dave/N1IX** likes to compete, and he was the top scorer again in 2019. He had 424 CW QSOs and 61 multipliers for 51,728 points.

The Multi Operator battle was between **W1XX** and **NE1QP**. John/W1XX with Bob/K1XA had the edge with 711 CW and 1334 SSB QOS and 99 multipliers for 272,844 points. The NE1QP group at K1TTT (W1TO, K1MK, NJ1F and K1TTT) finished with 1019 CW and 450 SSB QSOs and 104 multipliers for 258,752 points.

Overall, no New England **state** records were set but a number of **county** records have **new totals**.

State	County	Category	Call
CT	Fairfield	SOLP	W1QK
CT	New London	SOHP	W3EP
CT	Tolland	SOHP	K1ZZ
MA	Bristol	SOLP	W1CVE
MA	Franklin	SOLP	N1YL
MA	Middlesex	SOHP	AA1ON
MA	Plymouth	SOLP	K1VUT
MA	Worcester	SOHP	AK1W
RI	Newport	SOHP	NC1CC
VT	Addison	MS	N1TRK
VT	Addison	SOLP	KE1VT
VT	Grand Isle	MS	W1NVT
VT	Orleans	MS	KC1ODJ
VT	Washington	SOLP	K1ARR

Another 13 county mobile records were also set.

Check out the NEQP records page for details for all record categories --> [Records](#)

Check here for detailed New England results --> [Score detail](#)

and for band-by-band leaders --> [Band-by-band](#)

Preliminary CARA 2020 Calendar

CARA Program and Activities Committee: Marcus – AB1WV, Bud – W1NSK

Last Updated 5/4/2020

May-

8th: Meeting – Presentation on Contesting and the ARRL FD - Paul Bourque, N1SFE
22nd: Planning meeting

June-

6th : VE Testing Session scheduled
12th: Meeting – Elections and FD discussion
No Planning Meeting in June Scheduled
27th – 28th: ARRL Field Day at Tarywile Park - tentative

July-

10th: Meeting – Presentation on Summits On The Air, SOTA - Marcus AB1WV
24th: Planning meeting
26th: US Islands QSO Party

August-

14th: Meeting - Hamfest Prep
21st: Planning meeting
23rd: Hamfest

September-

11th: Meeting – YCCC President, Dennis Egan – W1UE, invited for presentation
19th: VE Testing Session scheduled
19?: New Fairfield Day – W1QI Special Event Station – tentative



CARA Hamfest – August 23, 2020



Greetings fellow CARA members:

I'm writing this on the first day of February - and it's cold and snowy outside. But before we know it, it will be end of summer, and time for our annual Hamfest. The "Biggest Little Hamfest in Western Connecticut".

Although there may not be a lot that's needed to do now by the vast majority, it's **never** too early to get the word out.

As we attend other ham and electronics/computer-related events, please take along some of our flyers for distribution. As you speak to vendors, ask them if they're aware of our event. Give them a flyer, get their information and e-mail address, send it to me and I'll contact them. The more the merrier!

I'm sure we all know how much work that's involved to ensure that we have another successful event, and it won't happen without **your** support and efforts.

This year's flyer is on the next page. Print a few and take them with you.

Our event continues to grow every year!

73,
Vice President – John Morelli, W1JGM
CARA Hamfest 2020 Chairman

W1JGM@aol.com

THE POWER OF TEAMWORK:

Video Motivasi – Kerjasama Team (Team Work)

<https://youtu.be/oqRX02uhicc>



Sanctioned by ARRL

SAVE THE DATE AUGUST 23, 2020

Sunday, Doors open 8AM

Candlewood Amateur Radio Association
Annual

Western CT. Hamfest

The **BIGGEST**, little Hamfest in
Western Connecticut

Indoor tables \$20 each, Tailgating \$15 / spot

Includes 1 admission

Admission at the door \$7 (\$1 discount with flyer)

Children under 12 Free

See you at the Hamfest "73"

CARA is a 501(c)3 organization

FALL "ARES" FORUM
10:30 IN THE HALL

DEMONSTRATIONS

MAJOR VENDORS

INDOOR TABLES
OUTDOOR TAILGATING

VE SESSION - 9:30
NO APPOINTMENT REQ.

REFRESHMENTS
RAFFLE
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50/50
GOOD TIMES

TO BE HELD AT

Edmond Town Hall
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Hamfest.cararadioclub.org

Contact; John Morelli
(W1JGM)

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