

Central Ohio Radio Club, Inc.

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Place Label Here

Web Page at <http://www.corc.us>

Over 50 Years of
Service to the
Amateur community!



Editor, The CORC Repeater Newsletter
Joe Hahn (W8NBA)
P.O. Box 166
Sunbury, OH 43074-0166

The Central Ohio Radio Club
May 2020 Newsletter



ARRL Special
Services Club

Membership application

Central Ohio Radio Club, Inc. (CORC)

Operating Amateur Repeaters Since 1970

CORC operates repeaters with outputs of 52.70, 146.76, 146.97, 147.33, 442.800, 444.200
145.49 D-STAR & 444.000 D-STAR

Some of the features include:

Worldwide linking on our IRLP & D-STAR Repeaters.
Repeaters are used by the Central Ohio Weather Net and Central Ohio Traffic Net.
Multiple receiver sites located in Franklin, Licking, Delaware, Pickaway and Logan Counties
To ensure you excellent coverage throughout Central Ohio.

Membership allows full use of the CORC facilities, Operating Manual, subscription to the CORC Newsletter,
and a vote at the annual meeting of the corporation.

Family member amateurs at the same address are NO additional charge, (No Vote at annual meeting)

\$18 / 1 year - \$32 / 2 years - \$45 / 3 years Dues Enclosed \$ _____
Optional Donation – CORC is a 501(c)(3) corporation \$ _____
Total \$ _____

Please mark one: New Application Renewal Application

Call Sign _____ Name _____ e-mail _____

Call Sign _____ Name _____ e-mail _____

Call Sign _____ Name _____ e-mail _____

Street Address _____

City _____ State _____ Zip _____

Home Phone () _____ Alternate () _____

How many of above are ARRL Members _____ (CORC is an ARRL affiliated club)

Check to Request Newsletter by e-mail (this saves the club mailing cost) _____

Please make check payable to CORC and mail application and check to:

Central Ohio Radio Club, PO Box 166, Sunbury, Ohio 43074-0166

For questions call membership chairman John, W8RXX @ 614-579-0522
or visit the CORC website at www.corc.us

Thank You for your Membership and Support!

Rev 1/20

The Central Ohio Radio Club Newsletter

May 2020

CORC May Newsletter COVID 19 Edition

President
Laura Perone
KA8IWB

Vice-Pres.
Warren Hull
W8WJH

Secretary
Tony Fabro
N8RRB

Treasurer
Steve Robeano
WD8JKX

**Newsletter
Editor**
Joe Hahn
W8NBA

**Membership
Chair**
John Perone
W8RXX

FM Repeaters

53.70 /
52.94 / 52.70
51.70 /
W8RRJ

146.16 / 146.76
W8AIC

146.37 / 146.97
W8RRJ

147.93 / 147.33
W8NBA
IRLP Node 8094

449.20 / 444.20
W8AIC

447.80 / 442.80
K8NIO

**D-Star Repeater
G3 Gateways**

Greetings,

As you know CORC was planning a 50th anniversary celebration party on June 7th of our first repeater going on the air. However,... The Covid-19 virus showed up.

With government distancing restrictions and even more importantly using common sense, we have chosen to cancel this party.

People should be very leery around large groups, sitting at common tables with common food made at many different households. We have many who attend that are certainly not old, but are seasoned and well over 60. It makes one think twice.

We plan to have a 50+1 party next spring. We will know a lot more about the situation by then.

We are considering a smaller regular pot luck dinner / meeting in late summer or early fall depending on status of the virus.

Congratulations to the following CORC directors that were re-elected: W8RRJ, John Hull; WD8JKX, Steve Robeano; WA8KKN, Charles Wood

At our last pot luck in February Stan Broadway, N8BHL, the ARRL Ohio Emergency Section Coordinator, was our guest speaker. Stan always does a great job explaining what is happening with emergency services.

Remember a safe way to socialize is on the air. You can make many new friends and catch up with old acquaintances. No mask is required.

Stay Safe!
73,

Laura, KA8IWB
CORC President

Membership Update



President Laura, KA8IWB modeling her ARRL COVID-19 mask.

The June 7, 2020 CORC potluck has been canceled due to safety concerns of Covid-19 virus. We realize some wait to pay their dues at that meeting. If you dues are not up to date please submit them now. This is the last reminder you will receive.

If you have questions on your membership expiration date please contact me. By retaining many members we are proud to say we have NEVER have a dues increase in over 40 years. If financial circumstances prohibit payment just drop me an email and we will keep you on the roster.

Remember... CORC is a 501(c) (3) organization so extra donations may be tax deductible. Check with your tax adviser.

CORC THANKS YOU for your past and hopefully continued future support!

Many thanks to the following who have donated their time, talent, money, printing, etc. since the last Newsletter was printed.

They all help keep CORC financially sound.

- | | | | | |
|---------------|---------------|---------------|---------------|---------------|
| W8RRJ | W8NBA | N8RRB | WA3UOO | W8AGS |
| WA8OFF | KB8CIQ | WD8JKX | W8WJH | WA8KKN |
| KA8IWB | KE8CKT | KE8ILF | KA8RLC | KC8DIJ |
| W8RXX | K8TW | | | |

We welcome the following who have joined CORC since the last newsletter was printed. Please thank them for joining when you hear them on the air.

- | | | | |
|------------------------|--------------------------|-----------------------|-----------------------|
| WA8OFF - Bill | KE8CKT - Kurt | KE8OBA - Peter | AA8TA - Mike |
| KE8NWA - Mark | KD8RHR - Victoria | KC8DIJ - Dan | SOON - William |
| KD8LLL - Martin | KD8LFX - Kirk | | |

John / W8RXX
CORC Membership Chairman
w8rxx@arrl.net
614-579-0522

Kroger Community Rewards

Kroger donated \$251.27 during 2019 to CORC

Many members helped us earn this amount by having CORC listed as their Kroger community rewards recipient. Imagine how much additional would come our way if even more members signed up.

Every April you must confirm your request with Kroger.

Please follow the instructions below!

- 1.) Go to www.kroger.com
- 2.) Go to welcome / sign in – select my account
- 3.) Sign In, if you already have an account, or create an account
- 4.) On left under my account select Community Rewards
- 5.) View Community Rewards and verify CORC is shown
- 6.) If not, select change organization
- 7.) Enter into the box SU216, then hit search
- 8.) When CENTRAL OH. RADIO CLUB, INC. is shown – select enroll
- 9.) Under my account - Sign out

Note: This does **NOT** take away from your Kroger fuel points!

CORC THANKS YOU!

Looking Back

Memories from years ago....

Edited reprint of an article from 1990 by Joe Hahn, W8NBA

New data supplied by Club Secretary, Anthony Fabro, N8RRB

While getting ready for this 30th Anniversary Issue of the CORC newsletter (now the 50th), I started to look back at some of the older issues to see how things have changed over the years. Even though I joined the club in 1978, I only saved issues from 1981 to the present. I hope some of the articles brought up will jog your memories and bring back some good memories of days gone by.

The oldest issue I have is from August of 1981. Jim Azbell, WB8SYK, was President and Marilyn Hull, W8WTB, was Vice-President; George Cryder, W8LGL was Secretary and Stew Banks, W8FEH was Treasurer. Newsletter Editor at that time was WB8YUS, Jim Gifreda, now known as W8MAP. Back then the newsletter was printed on a "state of the art" Model 33 Teletype unit. Articles talk about driving to Detroit to take your license exam and the change in the reset beep on 146.97. The ICOM IC2AT was called the marketing bonanza year. Just think a synthesized handheld radio!

Let's jump up a year to August of '82. Phil Carter, WD8QWR was appointed membership chairman and Jim Gifreda had moved from Northwest Blvd to Tremont Road. KA8IWB, Laura Lafferty, was welcomed as a new member, and Starr Surplus had a half page ad for Radios, Crystals, Wire and Tools.

Next is October of 1983. John Perone, WD8RXX is elected to fill the trustee term of WB8YUS, who resigned in August of '83. A copy of the Operating Manual is included with this issue.

Jump ahead to October 1985. Marilyn Hull, W8WTB is President, K8VKA, Ed Schleppe is Vice-President, N8BHL, Stan Broadway is Secretary, WB8WKZ, Malt Brown is Treasurer, Phil Carter, WD8QWR is still Membership Chairman and two new guys, N8CEI, Jeff Allen and WD8NBA, and Joe Hahn is editing the newsletter. Packet Radio is all the rage. WB8WGA, Bob Ball had a Packet BBS running on a Vic-20 using W0RLI software. Bob Fowler, KA8HCG, wrote a series of articles on Teletype called the Ratts Nest. And who can forget Fred Yost's, K8JG-----Y, series of articles on ATV.

February 1986. This is the first newsletter that I edit on my own. A Packet Repeater is put on the air at a secret "downtown" location. Its call is W8AIC/PKT.

September 1989. Shocking news that Marilyn Hull, W8TBW, had suddenly passed away. John Perone is elected President. An RC-850 was purchased to repair the 146.97 repeater that was damaged by a lightning storm. Detailed user instructions were given on how to use the new controller. New Members welcomed in this issue include Steve, N8JYV and Rose, N8PKY, Malott and Bill Berry, K8DRE. Keith Chambers, W8SSA, call changes to WQ8H.

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February 1991. AN RC-850 controller was installed on 146.76, and control point moved to WD8RXX's home. RC-96 controller installed on 147.33. Jersey Tower was constructed by K8VKA with receivers for all three repeaters. W8FQ, Rick Farquhar takes over as Membership Chairman.

March 1992. W8FEH, Stew Banks retires as CORC trustee. K8NIO, Trigg Tabor is elected trustee and club secretary. 147.33 Repeater moves to Pataskala and using call WD8NBA/R. W8FQ resigns Membership Committee Chairman, Joe Hahn, WD8NBA appointed to fill term. Universal Radio moves to new location at Americana Pkwy. Del Lafferty, KC8MJ, passes away.

July 1992. W8BTW, Ralph Rickett, manager at Universal Radio passes away. N8RRB, Anthony Fabro, welcomed as a new member. Boy Scout Troop 195 speaks with the Space shuttle Columbia.

October 1992. 145.49 Repeater Affiliates with CORC. COSWN sells bumper stickers as a fundraiser. Ed Slade, N8TQP, designs new club LOGO. CORC starts using PL tone of 123.0 HZ on 2 meter repeaters.

July 1993. Roy Hook, WA8UHB elected President. KA8IWB, Laura Lafferty, elected trustee. LITZ alerting system added to 146.76 repeater.

October 1993. Transmitter for the 146.76 repeater moves to a downtown location. Lew Ramey retires from the National Weather Service. Central Ohio Packet Association sponsors a Free Packet Workshop.

April 1994. Results of the First Ground Hog Bash were detailed.

January 1995. West site added to the 146.76 repeater.

April 1995. 25th Anniversary Issue. CORC Control OP Program Started with N8RRB, Tony Fabro as Coordinator.

October 1995. First Ground Hog Hibernation Bash announced.

January 1996. CORC raffles off a Kenwood TM-241A Transceiver. CORC announces an Internet Web site.

July 1996. Little LEOs threaten to eat up amateur bandwidth.

January 1997. CORC presents Universal Amateur Radio with an Appreciation Certificate. Article in CORC newsletter prompts J. R. Thomas, from Franklin County EMA and Sen. John Glenn to write the FCC in support of limiting "Little LEOs" activities.

July 1999. Laura Lafferty, KA8IWB elected President. Jim Gifreda, W8MAP appointed Treasurer and Membership Chairman. COSWN is assured a place at Columbus Airport.

Airport Authority given award from National Weather Service. John Perone, W8RXX, and Joe Hahn, W8NBA, both get vanity calls dropping the D from their calls.

New Year's Eve/Day 2000 (Y2K): CORC 146.760 repeater used to support dozens of hams scattered around Franklin County hospitals and other agencies to support the Franklin County Emergency Management Authority in case the power grid failed at midnight due to computers not properly recognizing the year 2000.

October 2001: CORC grieves with the country and world due to the tragic events of September 2001. Information about organizations helping those affected is published in the newsletter. News about amateur radio operators assisting in New York City and Washington D.C. is also mentioned.

October 2002: One of the founding fathers of CORC, George Cryder W8LGL, became a silent key in August 2002. George was involved in getting the first CORC repeater on the air in 1970. CORC establishes the web page at address: <http://www.corc.us> .

January 2003: CORC switches from 3rd class bulk mail to first class mail to provide a more reliable delivery method for getting the newsletter to the membership.

October 2003: Mother Nature made her presence known during the summer of 2003 by damaging the controller on the 146.760 repeater and knocking over the two towers at W8RRJ's home (which also knocked the 146.970 repeater off the air for a short period of time).

January 2004: A new CAT-1000 controller was installed on the 146.76 repeater to replace the 16 year old ACC RC-850 controller which was damaged in a lightning strike in 2003.

October 2004: John Perone W8RXX and Phil Carter WD8QWR are granted CORC Life Memberships. The 146.760 repeater receives a "new" transmitter.

January 2005: 146.970 repeater transmitter is relocated from New Albany to Oakland Park Avenue. This transmitter can now serve as a backup to 146.760 if needed.

October 2005: Director Jim Gifreda W8MAP retires as director, and John Montgomery N8PVC is elected Director.

April 2006: CORC announces that the 6 meter repeater is being revived and will be back on the air soon (later put on the air in early 2007). Time to dust off those old rigs!

October 2007: The Central Ohio Severe Weather Net provides a year-end recap, noting that the National Weather Service switched to storm based warnings, or warnings by polygon, versus issuing a warning for an entire county.

April 2008: CORC establishes a club group on Yahoo as a way of notifying members of important news and events between newsletter mailings.

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April 2009: CORC announces it will present a proposal to the membership at the June 2019 Annual Meeting to establish itself as a 501(c)3 organization.

October 2009: CORC Life Member and longtime trustee Ed Schleppe K8VKA, becomes a silent key in July.

January 2010: CORC establishes IRLP node 8094 on the 147.330 repeater.

October 2010: CORC is officially recognized as a 501(c)3 organization by the IRS with a retroactive effective date of May 5, 1971!

May 2011: The 146.760 repeater receives a substantial upgrade and now has eight receivers. The repeater is also put into full PL mode at all times.

September 2011: The Central Ohio Traffic Net (COTN) began using 146.970 as its primary frequency in June 2011.

January 2012: The CORC Tech Net was revived in October 2011 and meets every other week to discuss technical topics related to amateur radio.

October 2012: CORC announces that the 6 meter repeater now has three receivers on separate input frequencies (51.70, 52.94, 53.70 MHz).

May 2013: One of the founding fathers of CORC, Dee Wheeler W8GKN, became a silent key in December 2012.

January 2014: W8CMH D-STAR repeater, previously owned by K8NIO, was transferred to CORC. Instructions for accessing the repeater are published in the newsletter.

October 2015: CORC announces an ambitious project of completing a full rebuild of the 147.330 repeater which will include a new controller, link receivers, link transmitters, and a rebuilt voter.

October 2016: Former CORC Director and longtime trustee Jim Gifreda W8MAP, became a silent key in May 2016. Jim developed and maintained a map of all Ohio 2 meter repeaters.

June 2017: Phil Carter WD8QWR becomes President of CORC, replacing Laura Perone KA8IWB who stepped down after 20 years of leading the club.

June 2018: Laura Perone KA8IWB returns to lead CORC as President (apparently she couldn't get enough). Rick Tressler WA3UOO is elected trustee, filling the position of Phil Carter WD8QWR who retired.

October 2018: CORC receives the distinction of being a Weather Nation Ambassador by NOAA. This title is given to organizations that work to improve the country's readiness against severe weather and other climate events.

October 2019: The clubs two furthest distant receive sites (Bellefontaine and Williamsport) receive visits from the Technical Committee. The antennas at Bellefontaine were moved due to a site rebuild, and all equipment was checked to ensure proper operation. Both sites are back in operation.

January 2020: CORC announces the club's 50th Anniversary Annual Meeting will be held on February 23, 2020.

May 2020: CORC postpones the June 2020 Anniversary Party till June of 2021 due to the COVID-19 Pandemic.

CHECK YOUR LABEL PLEASE...

This newsletter's mailing page has your club membership due date on it. Again, with COVID-19, some people are laid off and can't catch on their dues. Please let John, W8RXX know if there is some reason why you can't and he will make sure you are not removed from the roster. I conveniently put the application of the back of the mailing page so all you have to do is mail that in with your check. No needs to fill anything out unless something has changed.

One of the expenses you CAN help with is having your newsletter sent electronically. Although now we print and mail a relative small amount of newsletters, printing is expensive and so is mailing, so please let us e-mail it to you if you can. Thanks!

WINNERS FROM THE LAST POTLUCK DINNER

Rock Bound Rig: Sandy Robeano KB8CIQ (She has won twice, lucky girl!)

50/50: Dave Maynard WA3EZN

Red Lobster gift card: Kassie Hook (xyl of W8REH)

Cracker Barrel gift card: Ken Myers N8XYP

Bob Evans gift card: Jane Burley (xyl of KE8ANW)

Columbus Hamfest Cancelled this year!

Due to the COVID19 pandemic the Dayton Hamfest as well as the Columbus Hamfest scheduled for August have both been canceled. I would highly suggest before you make the mecca to a show, that you check here: <http://www.arrl.org/hamfests/search> for the latest updates.

Considerations for Installing Your Mobile Radios

By Rick Tressler – WA3UOO
WA3UOO@GMAIL.COM

Introduction

If you are contemplating putting a new mobile rig in your car, van RV, etc., this article is for you. I am going to cover several common considerations you should undertake prior to breaking out the drill, hole saw and other cutting and hacking tools. I will use my Yaesu FT-8800 dual band VHF/UHF mobile rig as the example for this article. It is installed in my 2015 Dodge Caravan. Similar radios including those used for HF operations can benefit by these and possibly additional considerations.

Where to Put the Radio?

Consider buying a radio that not only meets your operational needs but also can be installed in the vehicle in a way that suits as well. In my case, the Dodge Caravan offers little in the way of flat surfaces under the dash. I had to get creative. Many mobile rigs offer a detachable front panel. Old timers like me call it a “control head”. Great feature in my case and made the installation easier.

The radio was installed in the seating stow-and-go compartment, as my van does not have the seats intended for the application – just a bench seat, which is usually tucked away in the garage. The area provides ample space to install multiple radios and store other stuff. See Figure 1. The mobile bracket was put in with short sheet metal screws and is solidly attached.



Control Head Location

The location of this part of the radio is very important and safety of operation is essential. It MUST be located such that it is easily accessed and adjusted as needed. I recommend setting your radio up with all your favorite frequencies as memories. This greatly reduces workload. Drive safe, stay safe. I mounted mine on the left side of the windshield with a RAM Mount. If you're not familiar with them, check them out at www.rammount.com. It is absolutely secure, using a suction cup attach method. See Figure 2. Note the single interface cable was tucked into the rubber weather seal easily for this installation and ran all the way down to the floor and under the driver-side floorboard, then down into the radio compartment. The Yaesu mounting bracket was easily attached with #8 machine screws.



Remote Speaker

Install the speaker where it'll be easily heard and if you have a rig with good audio it will be all the better. The FT-8800 has a built-in speaker but given its location, that wasn't going to work it's under the floor. In my early years of radio, I put up with crummy mobile speakers. No more. I started buying surplus (and some new)



commercial grade speakers years ago and that was the end of that. Their audio quality is superior to most new-in-box hamfest speakers I have seen and used. Motorola, G.E. and Harris units are very good. See Figure 3.

Power Supply

The power wiring is very important because a solid, reliable connection to the rig is essential. Do not use undersized wire. I usually use AWG #12 or #14 for a typical dual band radio. In a pinch, a short cigarette lighter receptacle arrangement *can* be used in low-power mode, but I do not consider this a permanent solution, especially if you are thinking of using the high-power setting. A temporary install is the only way I would use it. A 100 watt HF mobile needs to be powered from the battery directly as they can easily draw 20 amps. The cigarette lighter connection just isn't that good. Consider going directly to the battery, or very close by, with a suitably sized fuse installed in the positive lead as close to the source as possible. That way, the entire run of wire is protected, should a short occur anywhere along its length.



A dedicated negative wire should make the run to the radio with a good, reliable ground, preferably where other grounds under the hood are bonded. You can also terminate at the battery directly if feasible. Do not take the negative wire from the rig and tie it to chassis steel. That connection can present a high resistance return path and will create operational problems, and, depending on the selected antenna, can make unintended use of the coax shield as a ground return path – not good. Keep DC off the coax. Power supply lead (red) terminated at fuse block under the hood which is connected directly to the battery close by to the left. Fuse is installed 6 inches downstream.

Antenna Selection and Placement



The type and placement must be considered. The type of antenna will play a role in specifically where it needs to be placed. You can use something as simple as a magnetic mount dual band set up or go with a more permanent solution with a trunk lip mount. Lastly, if you're adventurous, you can bore a hole in the trunk or roof with a chassis punch, tear out the roof headliner and have a real fun time with it. Go for an effective and relatively easy install task when it comes to the antenna. I use a Diamond SG7500 dual band antenna with a manual tilt-over feature. Gain is 3.5dbi on 2 meters and 6.0 dbi on 70cm. Antenna details are at www.diamondantenna.net and a trunk lip mount on the hood cowl. See Figure 5.

For proper DC grounding, this antenna required a bonding jumper between the hood and ground. Without it, SWR was terribly high because the trunk lip attach screws would not penetrate the paint and clear coat to the extent necessary. More work was required to achieve the connection. Additionally, the hood was not bonded to ground, hence the need for the jumper. Once that was addressed, the ground was perfect, the antenna SWR at 1:1 and 50 ohms. Excellent!