

The Central Ohio Radio Club

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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
September 2020 Newsletter



ARRL Special
Services Club

The Central Ohio Radio Club Newsletter

September 2020

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KA8IWB

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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**

144.89 / 145.49
449.00 / 444.00
W8CMH

COVID 19 Is Still Hanging Around!

Well here we are at the end of September and beginning of October and COVID 19 is still among us. Hopefully a vaccine will be developed soon and we can return to a somewhat normal life. The election is just a little over a month away and do your patriotic duty and get out to vote.

Even though we can't hold a Pot Luck for a little while we are having a Hidden Transmitter Hunt in October. More info on that later in this newsletter. The Tech Net has started already on the 146.76 repeater, and is run every other Sunday at 7:30PM. On Sunday September 27th, Mark, N8ME presented an edited version of his "Nano VMA" presentation that was on a Zoom multicast. Nano VNA is a Vector Network Analyzer for a small investment. PDF info is published on the website.

Other items included in this newsletter is a message from President Laura, KA8IWB, not the big guy in the White House. Articles from W8RXX, WA3UOO, and N8RRB are also presented.

Now some info on wearing a mask. As a public service you can do your part to help educate others that may not be aware how to wear their mask. What is the correct way to wear a mask to prevent the spread of the COVID-19?

Many people wear it pulled down below their nose, and that defeats the purpose of wearing a mask at all. While masks protect the wearer from COVID-19 to some degree, their primary purpose is "source control," or limiting the amount of infectious droplets coming out of the wearer's respiratory tract -- both the mouth and nose. Unfortunately, relative to spreading COVID-19, the nose also appears to be at an advantage over the mouth.

Researchers found the cells that line the nose were significantly more likely to become infected and shed virus compared to the throat or lungs. That means every time a person exhales through their nose, they're likely generating a higher concentration of infectious aerosol than if they were breathing through their mouth. It means in order to block that infectious cloud from escaping to infect other people, it's just as important to cover your nose with a mask.



From the President:

First and foremost I would like to thank you for your continued support of the club.

I like everyone else miss getting together in person as a group. Hopefully 2021 will allow us to have some normalcy back in our lives.

I don't want to dwell on the pandemic however I do want to share part of an article I read that makes a lot of sense...

There is some controversy concerning the wearing of masks while in public. This controversy goes with some believing that they shouldn't be forced to wear masks at all and others believing that everyone should wear masks whenever in public. There are a couple of issues here, the first being concern for the health and welfare of our fellow man. A good percentage of us are, for various reasons, in a high risk category. Secondly, with all that the State Government is doing to fight this virus, if someone were to contract the virus they would attempt to trace it back to the source, you don't want to be that person. The Governor has issued a mandate that masks be worn in public. That having been said, I would encourage all to wear a mask, follow social distancing, have your temperature taken, maintain hand sanitization and above all, if you are not feeling well please stay home. Remember the Japanese for years have worn masks when out in public.

We recently had severe weather and needed assistance of spotters in the field. Fortunately we have not needed many of these. Unfortunately with the pandemic there have been few spotters training programs. Practice weather nets are held on Tuesday evenings at 7:30PM on 146.76. They are a great way to learn before you are needed in an actual emergency. Another way to learn is to listen to others before giving a report. Sunshine reports take valuable air time when severe weather is present. Please check out the COSWN web page for helpful information. www.centralohiosevereweathernetwork.org

Hopefully many of you will be able attend our October hidden transmitter hunt while maintaining social distancing.

Whatever you do, continue to enjoy the hobby.

73,

Laura, KA8IWB

CORC President

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				

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.

N0MHZ – MIKE **KF8FA – BILL** **KE8PCT – BILL** **WB1ARO – BRUCE** **KE8MJD - SCOTT**

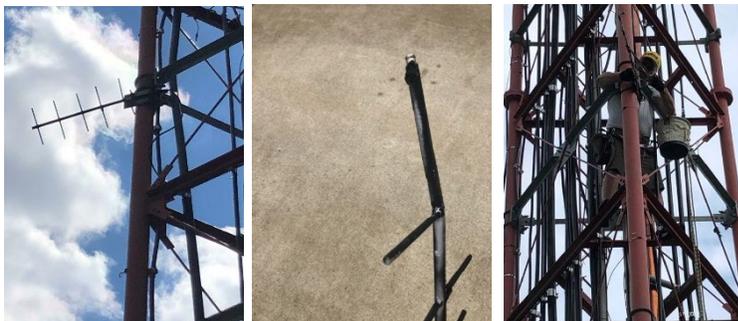
EVEN THE REPEATERS, DURING THESE COVID TIMES, NEEDED A LITTLE DOCTORING...

W8RXX, John
Technical Chairman

The 6 meter W8RRJ repeater the east receiver began acting strange. The issue ended up being the power supply was still working even though it decided to blow a filter capacitor. After replacement the 52.94 MHz. input operates again. As a reminder the two other inputs are 51.70 MHz near Powell, and 53.70 MHz north of downtown. The output frequency is 52.70 MHz. Reminder, be sure to use a vertical antenna and a PL of 123.0.

The 146.97 receiver at the WOSU-TV Westerville site became unusable. At first it was thought to be the receive link at W8RRJ's QTH. The UHF link receiver was swapped out and the link antenna was checked on John's tower. We still had the problem.

As most of you know Channel 34 WOSU-TV changed RF frequencies earlier this year, as did many other TV stations. They moved from 614-620 MHz to 482-488 MHz. As a side note... if you are involved with wireless microphones this frequency change makes a lot of them now unusable.



During the change out of the WOSU-TV large antenna on the top of their 1107 ft. tower our UHF link antenna much lower on the tower was accidentally damaged by rigging for their new antenna. It was replaced once we figured out the issue and magically the link was operational again.

I almost forgot, also at W8RRJ's QTH we replaced the UHF amplifier on the link going to the 146.97 transmitter and added a pass cavity to keep the amplifier clean.

The Canal Winchester site took a lightning strike. Thankfully not too much was damaged, we dodged a bullet. The power supply for the 146.37 receiver just shut down and resetting corrected it. More serious was the preamp/multicoupler that feed both the receivers for 146.76 & 146.97. It was replaced and the site is back operational once again.

Travelin' Tony's Timetables

by: Anthony "Tony" Fabro N8RRB

First, I hope all of you and yours have stayed healthy and safe this year. It's hard to believe that just two weeks after the CORC Annual Meeting in late February we were on lockdown and unable to do many of the things we take for granted every day. How quickly things can change!

I'm sure many of you thought the same thing I did – since I'm at home so much more than usual, I'll have all kinds of time to do <fill in the blank> project. But similar to a New Year's Resolution, those aspirations never took place. Funny how we find things to take up our time.

Maybe some of you have taken advantage of the time and knocked out some projects along the way. More power to you if you have! For the rest of us who kept saying, "I'll get to that tomorrow," pretty soon we'll be cooped up again for a different reason – cold weather! So now is the time to *really* commit to those projects, whatever they may be.

There certainly is no shortage of ham radio resources on the web to help you sharpen your skills. One of the resources I often go to is the ARRL Ohio Section webpage at <http://www.arrl-ohio.org> which, to use a phrase from Ohio Section Manager Scott Yonally N8SY, is "choked full" of great information. Specifically check out the Ohio ARES link on the page for links to training materials, forms, and other related content.

The main ARRL site at <http://www.arrl.org> also has a good amount of information available without having to log in. Check out the Licensing, Education & Training section to learn about the different types of training available, including online options.

Looking for something other than an online option, I encourage you to listen and check-in to one of the CORC Tech Nets which take place every other Sunday at 19:30 on the 146.760 repeater from September through April. The net hosts several open forum round table discussions where people checking-in can bring up technical questions about radios, antennas, computers, or any other part of ham radio. If you miss a net, feel free to send us a question at technet@corc.us and we'll be sure to give you a prompt response. Have a safe day.

CORC Tech Net Kicks Off Season 10 Early!

Due to the club canceling the summer and fall potlucks, the Tech Net started a month early with its first net taking place on 9/13. Net dates and net topics have been slated through the end of the calendar year. All nets take place at 1930 on the 146.760 repeater unless otherwise stated.

Here is a list of upcoming nets:

9/27: NanoVNA – Vector Network Analyzer review, Slides are on the CORC web site

10/11: Winter prep for the shack – outdoor tasks

10/25: Open Forum Roundtable

11/8: New to Ham Radio?

11/22: Kits and Kit Building

12/6: Open Forum Round Table

12/20: Lead Acid Batteries

Questions about ham radio topics, or suggestions for other Tech Net topics can be sent to technet@corc.us. We hope to hear you on the net!

Basics of Portable Generator Operation and Safety

Rick Tressler - WA3UOO

Introduction

You may have used a gasoline powered portable generator for ARRL Field Day weekend or some other emergency/temporary power need requiring AC power. When I was a novice operator in the 1970's, my first Field Day was great. A fellow ham brought a monstrous generator that was categorized as a "portable", yet it took at least three people to offload it from the pickup truck it arrived in and place it in an appropriate location. I was totally impressed and asked a ton of questions about it. Turns out it was just a 1500 watt package but back then, technology was basic for these things. It also drank gasoline at an alarming rate. That said, however, it ran flawlessly all weekend, being stopped only for refueling from one of the numerous 5 gallon Jerry cans another ham brought along. So, this introduction leads me into a brief article for this edition of the CORC newsletter. It's focused on basics of portable generators and safety of operation.

Look for a detailed discussion on a future **TechNet** on-air meeting about whole house generators this season.

Generator Types

Generators have come a long way in technology and design. There are basically two types; rotating armature and field and the inverter variant. Most people who have worked with portables are probably more familiar with the older design as it has been around for many years. It's simple, reasonably priced and, while comparably heavier than their inverter counterparts, it gets the job done. A conventional 1200 watt unit can be had for about \$300. Inverter units are markedly more expensive. That said, they are smaller, lighter, and quieter, and more fuel efficient. Inverter generators produce a *very* clean sine wave output – better than the conventional ones. So the hurdle you need to get over is digging deeper into your wallet. A 2.2 kW inverter generator costs about \$1000.

Starting Systems

Smaller generators are equipped with a simple pull starter like you've seen on various home and garden equipment. Larger ones may be equipped instead with an electric starter using a 12 volt battery. That said, such starting features add weight, complexity and cost. This type may have its own charging system but not all will necessarily have it.

AC Output and Ratings

Portables operate with 120 and/or 240 VAC, single phase outputs. Some include a 12VDC output as well. They are circuit breaker protected. Don't overload your generator. There are generally two rating you need to understand regarding power output; continuous watts and surge watts. As an example, a generator rated 2000 watts *continuous* can be operated at this power the entire time the generator is running. A *surge* rating of say, 2350 watts is for intermittent operation only. This additional power "cushion" allows for start-up of the connected load without causing the AC output voltage and frequency to depart from their nominal values. The surge rating is **not** for continuous operation. Using it in such a manner will likely cause the output circuit breaker to trip. When shopping for a new unit, be sure you understand the power output ratings as well as the AC voltage output capability.

Operational Notes

After starting a generator, measure the output voltage(s) to verify it is within its specified operating range. Since generators should always be shut down during refueling, shut down all connected loads **before** shutting down the generator!

Use quality extension cords that are sized for the connected load. Undersized cords will result in too much voltage drop and may become a safety and fire hazard. Quality outdoor extension cords

can be had for reasonable price. You should not normally need one larger than AWG #12. Again, follow the generator manufacturer guidance in the user manual.

Safety

Grounding the generator frame to a ground rod may be a requirement for some units. It's important that the operator understand this requirement and comply as necessary to make for a safe temporary installation.

Keep generators of all types well clear of dwellings, shelters, tents and other structures. During a recent hurricane, several people perished in their own homes while using portable generators. The cause was carbon monoxide poisoning. In one case, the unit was being operated inside a garage. The door was closed for reasons unknown and CO entered the home. The user manual should be consulted for the prescribed safe distance. I suggest increasing it 50%. *My opinion.*

Do not fuel a generator while it is running, Keep gasoline well clear of the generator while it is running. Follow all fueling requirements and instructions, Read the manual and the placards affixed to the generator. It is usually suggested that the oil level be checked during each refueling session. Be sure to use the recommended oil type and viscosity indicated in the user manual. Be aware the generator will be quite hot so know where the heat sources are during fueling and oil dipstick areas. I speak from experience.

Above all, be safe!

Find the Hidden Transmitter ~ Saturday October 17, 2020 ~ 1PM

Since we are currently unable to have our usual meetings we thought you might like to actually use some of your amateur radio skills in a fun activity while social distancing. CORC will hide a 2 meter transmitter within a mile of Genoa Township hall and it is your job to locate it.

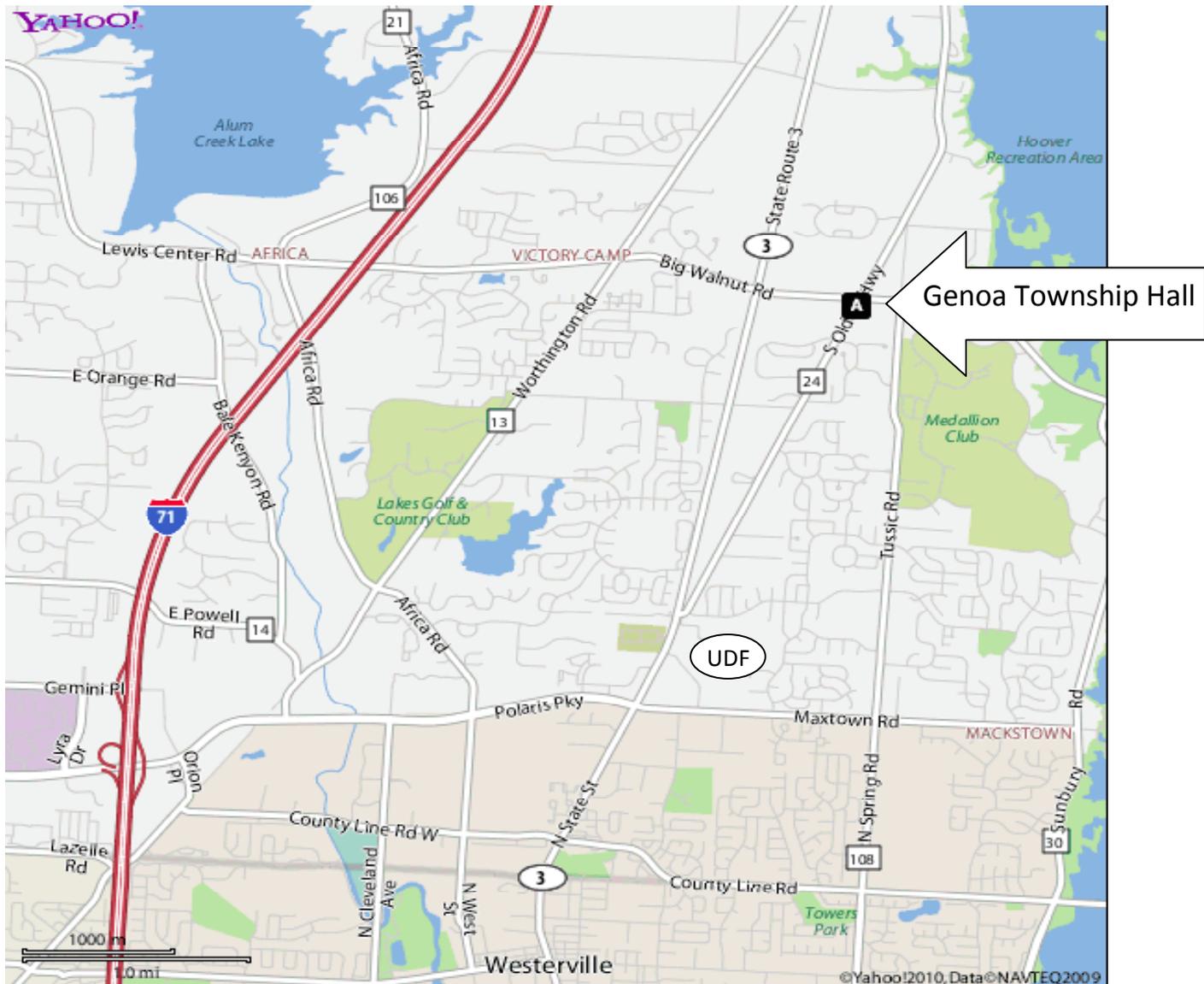


The first person that finds it wins a Kroger \$100.00 gift card. There will be ONLY 1 winner. All are welcome to participate. You MUST stop by the Genoa township hall between 12:15 PM and 12:45 PM to register and be given the 2 meter frequency. You must register to be eligible to receive the prize. Please follow social distancing during the event and registration. This event will be held on Saturday, October 17th at 1PM rain or hopefully shine. It doesn't take a lot of equipment, just some thought and a radio. Some may remember the loop antennas we made a while back at one of our meetings; here is a chance to use them.

There are many ways to find the transmitter. Possibly using your body as a shield with a handheld close to it to find the direction? A paperclip as an antenna makes a great low gain antenna. Even removing the antenna when you get really close works. Even knowing where the null on your vehicles antenna is located are all methods to try. Do some research online and experimenting beforehand using a known signal source to help you with this challenge.

(Hint -The NOAA 162.550 MHz transmitter at Broad & High Sts. transmitter is on 24/7

And now that you know about it...
Here is how you get there!



From 71 take Polaris Pkwy east. Turn left onto N State Route 3. Turn right onto S Old 3C Hwy.

Go north to the Genoa Township Hall on your right at Big Walnut Road.

From 270, exit at State Route 3/Westerville Road and turn right onto S Old 3C Highway.

Go north to the Genoa Township Hall on your right at Big Walnut Road.

Genoa Township Hall is on the SE corner of Big Walnut Road & S Old 3C Highway.

5111 S Old 3C Highway

Westerville, OH 43082

GPS: 40.178632, -82.902903

Revised January 2017

CORC 9-19-20

AA8EY	BILL	KC8NRF	CHARLIE
AA8TA	JOE	KC8NRI	BETH
AC8HV	ERIC	KC8WTW	DWIGHT
AC8TZ	GREGORY	KD7PBU	JOHN
AC8VM	RANDY	KD8ASZ	ROBERT BRUCE
AC8XP	TROY	KD8BDO	ROYDEN
AC8YE	LARRY	KD8BGR	CHARLOTTE
AD8CM	MARCEL	KD8IDJ	JOHN
AF8WX	BRIAN	KD8ISB	TAMMERA
K3ZAA	BILL	KD8KBX	STAN
K8BRJ	AL	KD8LFX	KIRK
K8CYA	ROSS	KD8LLL	MARTIN
K8DQ	KEN	KD8OQA	MARTIN
K8DWR	DOUGLAS	KD8OZF	MICHAEL
K8KDR	MATT	KD8PHG	RICHARD
K8MAY	KENNETH	KD8QFO	GENE
K8MEJ	ED	KD8RHR	VICTORIA
K8MJ	MICHAEL	KD8RID	RANDALL
K8NEG	NANCY	KD8RTP	JOHN
K8NIO	WILLIAM T.	KD8SSD	LEW
K8NJ	JOHN	KD8SYP	BOB
K8PB	PHILIP	KD8TQE	RICK
K8PFD	RONALD C.	KD8TTE	MATTHEW
K8SAR	STEPHEN	KD8TYK	SCHUYLER
K8SCM	JOHN RAY	KD8UNT	MARK
K8TSG	JASON	KD8UTU	SUSAN
K8TW	TOM	KD8VRN	WILLIAM
K8UHH	WILLIAM	KD8YYP	ANN
K8VKA	TOM	KD8ZG	J. ARTHUR
K8WBW	JAMES	KE8ANW	BRIAN
K8XYZ	JEFF	KE8BBU	DONNA
KA8CEQ	JOE	KE8BBV	EDWARD
KA8IWB	LAURA	KE8BKR	SANDI
KA8KVV	MARVIN	KE8BRN	TOM
KA8LGO	LYNN	KE8BVO	CARROLL
KA8RLC	KALMAN Y.	KE8BWI	MICHAEL
KA8RTI	MICHAEL	KE8CKT	KURT
KB6VN	MICHAEL	KE8CLB	KIM
KB8ABO	JOHN	KE8FUR	DON
KB8CIQ	SANDY	KE8GTT	SEAMUS
KB8CMW	PAUL J.	KE8HPH	FRANCIS
KB8DEO	STUART W.	KE8HWY	MOTT
KB8DRQ	DAVID	KE8HXE	BRAD
KB8KKW	MORY	KE8ILF	JAMES
KB8NMT	DAVID	KE8IOS	JOHN
KB8PZA	MARY	KE8KJX	DAN
KB8TRL	JIM	KE8MEJ	CHARLES
KB8UVN	MATT	KE8MGV	ROB
KB8WO	PAUL	KE8MJD	SCOTT
KC8ASF	TONI	KE8MVN	TERRENCE
KC8DIJ	DAN	KE8NWA	MARK
KC8FRJ	CHRISTOPHER	KE8OBA	PETER
KC8MLN	TOM	KE8PCT	BILL
KC8MQO	DAN	KF8FA	BILL
KC8NRE	ANN	KG8DN	KENNETH
KM6KOT	ROBERTA	N8BHL	G. STANLEY
KN8ITR	MARTHA	N8DLA	DON
KV8Z	CHRIS	N8DRZ	JOSEPH R.

CORC 9-19-20

N3STG	PETER	N8FES	LINDA
N8ABE	MICHAEL L	N8GU	DR. BOB
N8AJ	LYNN	N8HDR	AL
N8AKI	SYLVIA	N8ISI	MARY L.
N8BHL	G. STANLEY	N8MFE	KEMPTON
N8DLA	DON	N8MLP	MIKE
N8DRZ	JOSEPH R.	N8OIT	FAWN
N8FES	LINDA	N8PCJ	JIM
N8GU	DR. BOB	N8PRB	PHILIP ROLAND
N8HDR	AL	N8PVC	JOHN
N8ISI	MARY L.	N8PVD	JOHN
N8MFE	KEMPTON	N8RRB	ANTHONY
N8MLP	MIKE	N8RZB	CHERYL
N8OIT	FAWN	N8SQ	STANLEY F.
N8PCJ	JIM	N8SY	SCOTT
N8PRB	PHILIP ROLAND	N8XYP	KENNETH C.
N8PVC	JOHN	N8ZQ	PAUL
N8PVD	JOHN	N9MHZ	MIKE
N8RRB	ANTHONY	NL7CF	ALFRED
N8RZB	CHERYL	NUHAM	WILLIAM
N8SQ	STANLEY F.	NZ8C	RICHARD
N8SY	SCOTT	W8AGS	JOHN
N8XYP	KENNETH C.	W8ARD	RUSSELL
N8ZQ	PAUL	W8CFO	CHARLES
N9MHZ	MIKE	W8DHS	DENNIS
NL7CF	ALFRED	W8EV	MIKE
NUHAM	WILLIAM	W8FEH	STEW
NZ8C	RICHARD	W8III	GARY
W8AGS	JOHN	W8JJB	JORDAN
W8ARD	RUSSELL	W8JNE	CHARLES
W8CFO	CHARLES	W8JTH	TED
W8DHS	DENNIS	W8KWA	CHARLES
W8EV	MIKE	W8KWG	GAYLE
W8FEH	STEW	W8LGY	RUTH L.
W8III	GARY	W8RXX	JOHN
W8JJB	JORDAN	W8SJQ	ROCCO A.
W8JNE	CHARLES	W8WJH	WARREN
W8JTH	TED	W8WTB	FRED
W8KWA	CHARLES	W8ZCG	AARON
W8KWG	GAYLE	W9ARD	ALICIA
W8LGY	RUTH L.	WA3EZN	DAVID
W8LGZ	JIM	WA3UOO	RICK
W8SJQ	ROCCO A.	WA3ZBU	DONNA
W8WJH	WARREN	WA8CLT	JOHN
W8WTB	FRED	WA8FKC	ANDREW ERIC
KM6KOT	ROBERTA	WA8KKN	CHARLES
KN8ITR	MARTHA	WA8MNC	ALAN
KV8Z	CHRIS	WA8OFF	BILL
N3STG	PETER	WA8OMQ	DEAN
N8ABE	MICHAEL L	WA8RMC	ART
N8AJ	LYNN	WA8RR	RICHARD
N8AKI	SYLVIA	WA8UZP	JIM
WD8JKX	STEVEN	WB1ARO	BRUCE
WD8OTO	FRED D.	WB8AKW	JOHN
WD8QWR	PHILIP L.	WB8LAP	JOHN
WJ8ACK	JAMES	WB8RUW	DENNIS F.
WJ8B	ANDREW	WB8SYK	JAMES W.
WX8U	JEFFERY M	WD8CZG	GORDON L.

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