



The Scope

Central Michigan Amateur Radio Club

Lansing Civil Defense Repeater Association

June 2017
Volume 17
Issue 6

CMARC Annual Field Day Meeting

It doesn't seem possible that an entire year has gone by since last year's Field Day. Well it has, and this year's event will be a great time to try your hand at some portable operating.

Each year, more than 40,000 individuals throughout the US and Canada join together on the last weekend in June to demonstrate to the public what ham radio is all about. Operators show off their skills, equipment, and antennas, but more importantly show how these skills can be used to serve the general public in times of emergency.

If you have ever been curious what it is like to operate HF, but have never had the opportunity, come on out to Mason and try your hand at operating. There are plenty of experienced operators there who can show you step by step how to successfully make a contact. You will discover that there is a whole new world out there beyond repeaters and Echolink.

See more details of all our Field Day operations later in the Scope.

When: CMARC Monthly Meeting
7:00 pm, Friday, June 9, 2017

Where: Lansing Mason Area Ambulance
Training Facility
807 Kerns Rd., Mason, MI 48854

For more information, you can check out our website at www.centralmiarc.com or get a hold of Club contact Don McLain/KB8RAD at KB8RAD@arrrl.net.



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ATTENTION ALL CMARC MEMBERS AND VISITORS

Beginning with the June 2017 CMARC meeting, we will be meeting at our **new location** at the Lansing Mason Ambulance Training Facility.

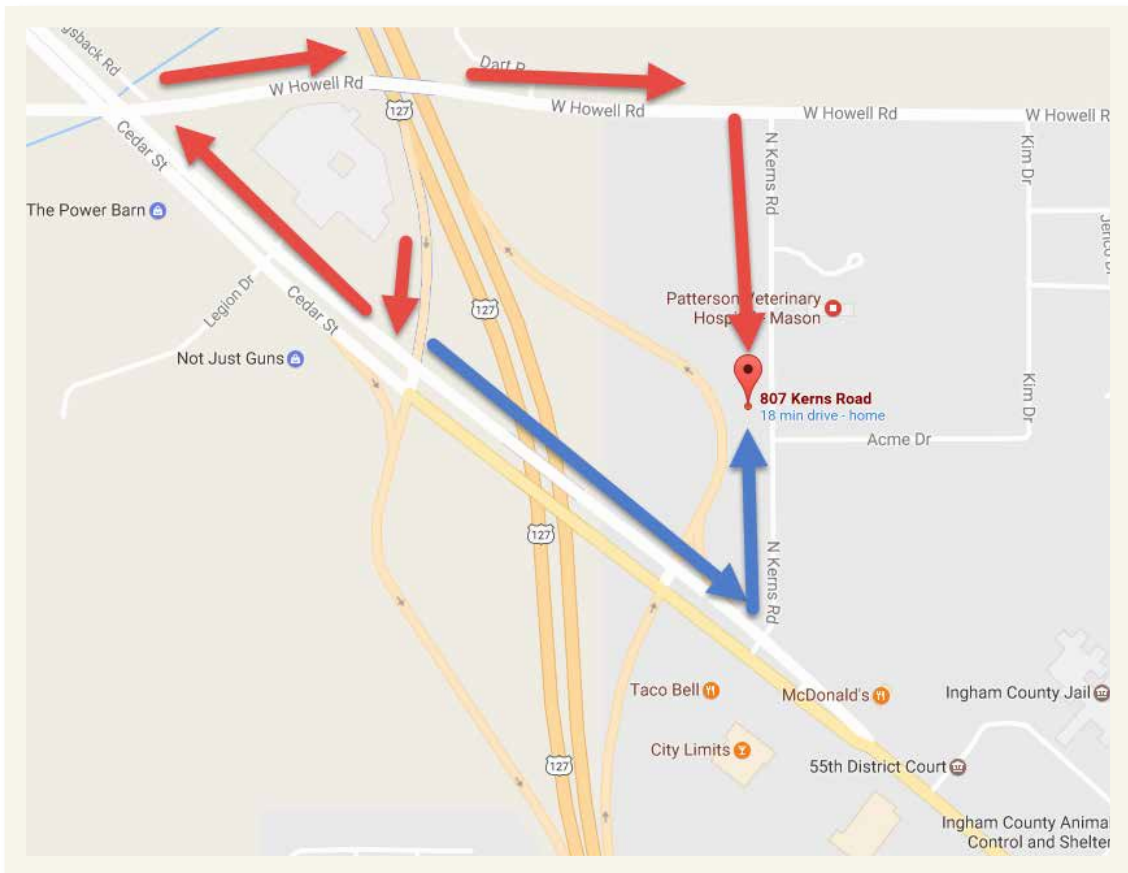
807 Kerns Rd, Mason MI 48854



Coming from the North or South, take Exit 66 (Cedar St./Mason) off US-127.

You can choose to follow the Red route or the Blue route.

When traffic is heavy, the Red route may be the easiest.



June Birthdays:

6/2 Clyde Tompkins / K8CPT
6/6 Bill Coon / KC8LRM
6/7 Brian Wellwood / KD8ONC
6/8 Bob Strobel / KB8DQQ
6/12 Ted Sadilek / WA8MFQ
6/13 Steve Cooper / N8NTU
6/14 Bob Woolever / KE8AGO
6/14 Dawn Beuchert / KD8MWA
6/25 Gregg Mulder / WB8LZG

June Anniversaries:

6/4 Bill Smith / KD8INX
6/7 Dennis Dann / KE8ACH
6/15 Mark / KD8YUY and Bonnie Carter
6/18 Bill Coon / KC8LRM
6/22 Ron / WD8BCS and Maribeth Harger
6/22 Ted / WA8MFQ and Bev Sadilek
6/24 Garry / KC8MAD and Marie / KC8NOI Watson
6/26 Ed Hude / WA8QJE

Upcoming Meetings:

CMARC

The next meeting for the Central Michigan Amateur Radio Club is Friday, [June 9th](#) at 7:00 pm at the Lansing Mason Area Ambulance Training Facility, located at 807 Kerns Road in Mason.

ARPSC

The ARPSC meeting for the month of June is at 7:00pm on Monday, [June 19th](#). We will be meeting at Ingham County Sheriff's Department off Curtis Road in Mason - Sgt. Cole Training Room. For more information about the ARPSC, please check out our website at www.lansingarp.com

Treasurer's Report 2017

John Doornhaag / KD8NNQ - CMARC Treasurer

Bank Balances for May	
Beginning Balance	\$3,172.21
Total Monthly Income	\$215.00
Total Monthly Expenditures	(\$412.13)
Total Business Checking	\$2,975.08
Petty Cash	\$1.00
Sub Total	\$2,976.08
Primary Share Accounts	
Humphrey's Fund	\$1,093.81
Building Fund (Club Station)	\$19.09
Field Day	\$530.58
Total Net Worth	\$4,619.56
Youth Fund Balance*	\$254.02
* Separate from CMARC Funds	

Ongoing License Plate Project for the Club Room:

By Russ Fitzgerald / N8FZ

The club is trying to collect as many ham call license plates as possible from our members for a display in the club shack redesign project. Check your garage, shed, or basement and see if you have an old plate kicking around. Year or condition doesn't matter. Can't find one but still would like to participate? No problem. Here's what you do. The State of Michigan will let you order a replacement plate at any time, you do not need to wait for a renewal. All you need is a copy of your license, Amateur Radio Operator form from the state (I have

plenty of these), and a check to the state for \$2.00 for the standard plate or \$7.00 for the graphic bridge plate. When it arrives you use the new plate on your vehicle and donate the old one or donate the new one.

If you have any questions please call 517-899-2622, or email russf2211@aol.com, or see me at the next meeting. I have the forms with me.

2017 CMARC Field Day Update:

By Ron Harger, WD8BCS

FOOD DONATIONS:

1. Jim/KC8QWH will be chasing down some food donations for us again this year as well as the very important porta jon facility.

FOOD:

1. My XYL Maribeth is working on a sign up list of food items which we will have at the June meeting.

ICSD TRAILER:

1. The Ingham County Sheriff Department trailer is in need of some repairs. It is not certain at this point if we will be able to use it this year. We are working with the county on it. We may need to provide a couple tents or seek trailers to borrow if it is not available.

PHOTOGRAPHER & PIO:

1. I sent Kenny Hazlett N8BVV an email to confirm he is available for Field Day operations again. Will update at the meeting.

POWER:

1. Randy Williams/KD8MOK has volunteered to exercise the State of Michigan Emergency Operations diesel generator again this year at our Field Day. I believe we should also exercise "Ol' Yeller" as well to ensure its operational status.

SITE SELECTION:

1. With many thanks to Ed Hude/WA8QJE, Rayner Park in Mason has been secured for the next three years as our Field Day location. Randy/KD8MOK and myself will act as site chairs. The city closes the gates at approximately dusk each day, Randy or I will have a key to the gate.

SITE SAFETY:

1. Not sure if he knows it or not but I've volunteered Bob Berger/K8RDN to be our Safety Manager at Field Day.

STATION CHAIR PERSONS:

1. HF CW: Gregg Mulder/WB8LZG has volunteered to chair the HF CW station, John Tyree has again offered the services of his travel trailer for it's shelter.
2. HF SSB-1: John Hosford/KC8QZB has volunteered to chair HF SSB station.
3. HF SSB-2/DIGITAL: Unconfirmed if Matt Miller/KD8OOS is on board officially yet or not, but I should have this confirmed by meeting time.
4. SIX METER FM: At the time of this email, we do not have a confirmed Six Meter FM chair but I've heard tell of one individual interested. More at the June meeting.
5. GOTA: (See below in Bonus Points section)

VE TESTING:

1. VE Testing is scheduled for 11:00 am again this year. John Doornhaag/KD8NNQ will be in charge.

WIFI, MESH, LOGGING SOFTWARE, LAPTOPS, INTERNET ACCESS:

1. This area is a work in progress, not certain if we will have laptops to borrow or if the station chairs will be using their own. It's been very helpful for the SSB stations to be able to see where the other is working to prevent dupes etc. Randy KD8MOK and Matt KD8OOS are the listed chair persons in this area, Last year I was able to get a donated cable modem from Wide Open West so that we had internet access at the site connected thru our private WiFi. I plan to do so again this year. More at the June meeting.

BONUS POINT ACTIVITIES:

1. ARRL FIELD DAY MESSAGE: I plan to copy the ARRL Field Day message for the 100pt bonus.
2. NTS MESSAGE TO SM: I also will originate an NTS message to our Section Manager for extra points.
3. TRAFFIC NET: Anyone interested in hosting a Field Day traffic net please contact me.

2017 CMARC Field Day Update:

4. TRAFFIC HANDLED: Anyone interested in checking into a net and passing/receiving traffic please contact me.
5. GET ON THE AIR COACH (GOTA): At the time of this email, we do not have a confirmed GOTA captain. More on this later.
6. PIO / INFORMATION TABLE: This is part of the setup/tear down tasks outlined below in "Help Wanted".

HELP WANTED!! :

1. FIELD DAY EQUIPMENT: : We typically pick up the canopies and other Field Day equipment beginning at 7:00am on Saturday. Once transported to the site, setup begins at approx 8:00am. Help at these two times/locations will be greatly appreciated! We also will need tear down assistance beginning just after 2:00pm on Sunday once the contest is concluded.
2. PIO/INFORMATION TABLE: : All participants, and any visitors to the site should be directed first to the sign in book. We have some ARRL pamphlets and brochures that we place here as well. This will be adjacent to the GOTA station setup or within the GOTA shelter depending on room.
3. SITE RESTORATION/CLEAN UP: One thing I'm proud to say about all of our Field Day operations through the years has been that the site is always in better shape after Field Day than before. We have one or two people walk the site and pick up trash (whether it's ours or not) and look for the errant tool or HF rig that may have been left behind. In 2015 the year that "the rains came and didn't leave" we made a bit of a mess of the grounds. But on the Monday following we went back and raked out the grass and flattened out the minor ruts that had been left behind. So a couple volunteers with these tasks in mind would be great.

GOTA COACH NEEDED! :

What is the "GOTA" station? The GOTA Station "is an opportunity for any Technician or Novice licensees, newly licensed amateurs, other generally inactive licensees, and non-licensed

persons to experience first-hand the fun of amateur radio by allowing them to GET ON THE AIR (GOTA)." What does it take to be the GOTA Coach? Like any other Field Day station, the basic equipment needs apply: Antenna, Transceiver, Table, chairs, shelter. This equipment is already available. All that's needed is the coach! The GOTA Coach should be of General Class or higher to take full advantage of any band openings. You do NOT have to operate the GOTA station the entire weekend. Typically we select a four hour (or longer) time slot on Saturday to offer the opportunity for others to check out Field Day and Amateur Radio in general. I have purchased and will donate several of the following for qualified participants of the GOTA Station (choice of one):

ARRL Field Day GOTA pin, 1" square :



ARRL Field Day 2017 pin, 7/8" x 1-1/4":



ARRL Field Day 2017 patch, 3" square:



CMARC Field Day 2017

Schedule of Events

By Ron Harger, WD8BCS

Thursday, June 22, 2017

Approx 5:30 PM at Rayner Park. Antenna Setup (some stations). Check with each station chair to see if they'll be on site or not on this day.

Friday, June 23, 2017

Anytime after 3pm depending on Station Chair. Station Setup (some stations). Check with station chair to see when they'll be finalizing setup.
Dusk Park Gates Close:

Saturday, June 24, 2017

7:00am-8:00am Pick up equipment at CMARC
8:00 AM Canopy Setup at Rayner park
11:00 AM VE Testing Session
12:30 PM Lunch:
2:00 PM Contest Operating Begins:
3:00 PM Fox Hunt Demo (Radio Direction Finding):
6:30 PM Main Meal / Picnic
8:00 PM Evening Snack

Sunday, June 25, 2017

8:00 AM Breakfast:
2:00 PM Contest Operating Ends:
2:05 PM Food area cleanup & packing begins
2:06 PM Teardown, load tables-chairs-canopies
4:30 PM Unload equipment at CMARC

General Site Information

Location: Rayner Park, across from Dairy Hill.
622 E. Ash St (M-36)
Mason, MI 48854
South side of park, end of gravel drive.
Talk In Repeater Frequency: 145.39
Local Simplex Frequency: 146.58

Dismantling of our Antennas and Towers on May 20, 2017.



Thank you to Tom Rocheleau/WA8WPI for doing all of the climbing work. He spent 4 hours on the tower with a short break for lunch. John Doornhaag/KD8NNQ brought along his jin pole, which made the job much easier. He also brought this trailer, which making the job of transporting the two towers and the antennas to Mason a breeze. Both John and Mark brought circular saws to use for cutting the tower legs off. Other people who joined the team and provided man power when needed were Ted Sadilek/WA8MFQ, John Hosford/KC8QZB, Bob Berger/K8RDN, Pete Strank/KC8TCS, Mark Carter/KD8YUY, Ed Hude/WA8QJE, and Chris Ranes/NS8Q. If other were there but were not listed, please accept our apologies. We appreciate the hard work of everyone involved.



ARRL Volunteer Exams



Ingham County VE Group Ingham County VE Group

**Lansing Fire Station #44
1435 E. Miller Rd.
Lansing, MI 48911-5322**

Contact: Don McLain / KB8RAD
(517) 930-7707
KB8RAD@arrl.net

During the EVEN MONTHS, we meet on the first Thursday of the Month at 7:00 PM.

August 3, October 5, and December 7

**Lansing Fire Station #44
1435 E. Miller Rd.
Lansing, MI 48911-5322**

Contact: Don McLain / KB8RAD
(517) 930-7707
KB8RAD@arrl.net

During the ODD MONTHS, we meet on the second Saturday of the Month at 11:00 AM.

July 8, September 8, and November 11

Eaton County ARC VE Sessions

**Charlotte Church of Christ
64 Van Sickle Dr.
Charlotte, MI 48813-9999**

Contact: Mark Korroch / WB8TGY
(517) 645-2378
wb8tgy@yahoo.com

All sessions begin at 12:00 PM and walk-ins are allowed.

June 10,

October 14, and December 9

**A Special VE Session
sponsored by the Ingham
County VE Group will be
held on Saturday, June 24
@ 11:00 AM, at the CMARC
Field Day location at Rayner
Park in Mason, MI. For more
information see the Field Day
Update section on pages 4-6.**

Congratulations to our Successful May Exam Candidates!!

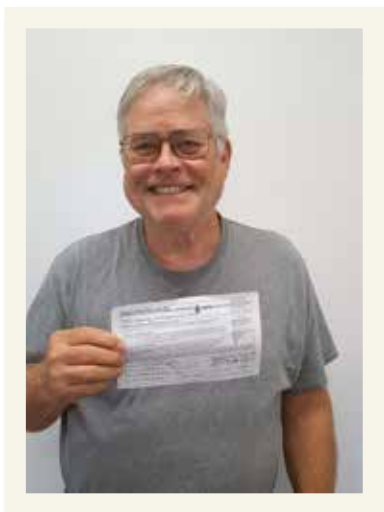
Doug Barth/KE8FXE from
Caro passed his Extra .



Jacob Emling/KE8GMB from
Dewitt passed his General .



Wendell Proudfoot from
Williamston passed his Technician.



Leo Kempel/KC8NXR from
Okemos passed his General.



Growing the Ranks vs. Growing the Enjoyment

By Dan Romanchik, KB6NU

When he's not working on helping new hams, Dan operates CW on the HF bands and blogs about amateur radio at KB6NU.Com. If you have a good idea for a new ham "mini class," e-mail him at cwgeek@kb6nu.com.



Because I teach amateur radio classes and publish a series of popular amateur radio license study guides (www.kb6nu.com/study-guides/), I often get kudos for "growing the ranks." In fact, Gordon West, WB6NOA, told me this

just last week, when he stopped by the booth I was in at the Dayton Hamvention. I'm paraphrasing a little, but after telling me that he's heard good things about my study guides, he said something like, "You're doing good work in helping get more people into ham radio."

People say that as if this is—or should be—the ultimate goal of teaching a license class. While this may be one of the goals, if that's your primary goal, I think that you're barking up the wrong tree.

In a way, creating more hams is selfish. If there are more licensed amateur radio operators, they say, then amateur radio will have more political clout with the FCC and with Congress, making it easier to pass legislation like the Amateur Radio Parity Act. While this may certainly help the new ham down the line, its main thrust is to reduce restrictions on those who are currently hams.

My goal in teaching amateur radio classes isn't to create more hams. Instead, my goal is to help more people have fun with ham radio. The first step in helping people have fun with ham radio is, of course, helping them get their license. I do that by publishing my study guides and teaching ham classes.

The next step, and I'm only really getting started on this right now, is to help people learn what they need to know to become better ham radio operators. That's why I got a little excited when I saw the article, "Making a Good hobby Better Through Post-Licensing Enrichment" by Tim Busch, NoCKR in the latest issue of Radio Waves, the ARRL's email newsletter for amateur radio instructors.

In the article, Tim describes several activities that his club encourages, including a "new ham net" and the Field Day GOTA station, but he also details a program of "mini classes" that will teach specific skills related to ham radio. These include:

- * Programming Radios and Getting on the Air
- * Soldering 101
- * Multimeter 101
- * Build and Use a Roll-Up J-Pole Antenna
- * Build and Use a Satellite Antenna
- * Foxhunts
- * Operating Digital Modes: IRLP, AllStar, D-Star, EchoLink, etc.
- * Remote Operation
- * Software-Defined Radios
- * Transitioning from VHF/UHF to HF Operating
- * Chasing Awards
- * Learn CW
- * Contesting

Tim writes, "Each class is intended to be no more than two hours at a sitting, so they can be held before a monthly club meeting. The variety of subject matter allows many club members to get involved in leading a topic. Materials kits are prepared in advance, so students walk away with practical items they can use at home."

I think this is a great set of classes, and I plan to try some of these in the fall. A couple of other topics that occur to me are:

- * Power Supplies 101
- * Mobile Operation 101
- * ARRL 101
- * RFI/TVI 101

Helping new hams—and old hams—have more fun with amateur radio is a lot more satisfying to me than just "growing the ranks." It would be nice to say that we have a million licensed radio amateurs in the U.S., but I think it would be a lot more valuable to the hobby to say that a larger percentage of licensed hams were active and enjoying ham radio. I know that, for me, increasing the number of active, engaged hams would be more personally satisfying than simply creating a lot of new licensees. ■

Let's Build a Field Day Antenna

By Gregg Mulder / WB8LZG



After many years of having fun at Field Day, I decided to comment about some Field Day antennas that I have seen used. (and misused!)

One of the popular multiband antennas is the trap vertical. Usually ground mounted with radials, it makes a good usable

antenna for many bands. It assembles easily and can be taken down into small sections for storage. The vertical radiates in all directions, but has no gain compared to dipoles and other antennas.

Without a doubt, the most popular Field Day antenna is the dipole. Fed in the Inverted Vee configuration, it too has good coverage in all directions. The important thing is to get the center up at least 30 – 40 feet in the air. The downside, it's only good for one band. (or odd multiples thereof) Full-wave loops are fine and give some gain over a dipole, but more supports are required.

The most popular Field Day Bands are 80m, 40m, and 20m. So ideally we would like to cover all three bands. How to do it? Trap Dipole. Just like the multi-band vertical uses traps to separate the portions actively used, we will make traps for a dipole. I found an old MFJ model and decided to “copy” it.

1st things 1st. We need a good center insulator. You can Homebrew one with an SO239 connector a few pieces of PVC and some “eye” hooks. However, there are some prefab commercial jobs out there that do a bang up job for a good price. (Budwig, MFJ, Alpha Delta, to name a few)

Now that we have a center insulator it's time to cut some wire. Cut two lengths of stranded copper wire 17 feet long. These will be the 20m elements. Solder these securely to both sides of the center conductor. Use 16 ga. or larger for more power than 100 watts. (*Figure 1 shows an MFJ style*)

Now let's build the traps. 1st cut 2, 1 ½ “ PVC tubing pieces to 3 ½” long. Drill ¼” holes all the way through on both ends about ½’ from the ends. Wind 33 turns of # 16 to 20 ga. enameled wire and terminate with a lug on the ends.

Drill a couple small holes to put 2 small screws to hold the wire taught while winding. (*Figure 2*)



Figure 1

Here's a picture of the 40m trap. (*Figure 3*)

Now take the 17-foot wires and thread them through the ¼” holes and attach them to the lugs after MEASURING 16 ½ feet. Solder them and Secure with ½ x 8-32 machine screws and nuts. Attach 6’ of stranded copper wire to the other side of the trap and solder.

Then make the 80m traps from PVC, only cut them 7” long with the holes drilled 1/2 “ from the ends. Wind 67 turns of enameled wire to form the coil. Attach the open end of the 6-foot wires to the 80m traps. Cut 5-foot lengths of wire and attach to the end sides of the 80m traps, terminate with an insulator on both sides. Attach a length of coax and your ready to test. You will have to raise this antenna up to about the 25-foot level to see where to “prune” ends so it will resonate in the sections of 40 and 80m that you want. It will cover the entire 20m band with under 2 to 1 SWR. Proper tuning of the other two bands should get you 150 Kcs on 40m, and about 80 Kcs of 2 to 1 band width on 80m in the portion you tune for. Properly tuned, it should give you good three band coverage with



Figure 2

a db or 2 of gain over a vertical antenna. The best part is “rolling ur own” will only set you back about \$25 with all new parts. New commercial trap dipoles are running \$50 –\$100.(some more) Naturally if you have a well-stocked “junk box” you can cut costs even further. The best part is, it can all be rolled up in a very small space and stored easily. Ready for your next portable deployment. Is this the BEST antenna for Field Day? Well, maybe or maybe not, depending on your needs, space, and desire for a good antenna for reliable communications. Yagi’s, Quads, Loops, Rhombics, Phased Verticals, Bi Squares, Long wires, Double Bazzokas, 8JK’s, Colinears, Lazy H’s and Bruce arrays will all have more gain but are more complicated to build and to set up and store.

I’m not going to make any claims as to which antenna is best. I’ll let you experiment on your own for one that works best for you. As for me, I’m kinda partial to the Bruce Arrays that we’ve been using at the CMARC Field Days the past few years. It’s hard to beat five elements on 20 meters!

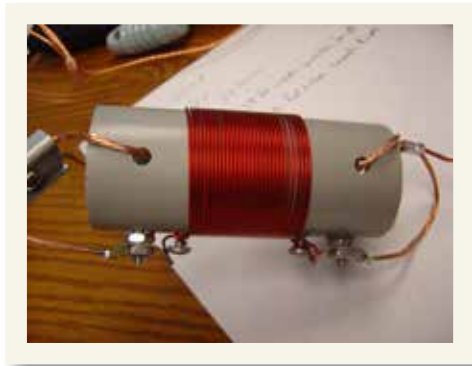


Figure 3

this Field Day. ■

Hope this inspires some of you to roll up your sleeves and build your own. Lots of satisfaction comes from using an antenna you made with your own two hands, and I’ll just bet that most of you have many of the parts already. Go ahead! Try a new antenna



Central Michigan Amateur Radio Club Board Meeting Minutes

Date: May 6, 2017

Time: 5:30 PM

Location: Denny's Restaurant on W. Saginaw Hwy.

OPENING:

1. President Tom Rocheleau/WA8WPI called the meeting to order at 5:38 pm.
2. The following Board members were in attendance: Tom Rocheleau/WA8WPI, Russ Fitzgerald/N8FZ, John Doornhaag/KD8NNQ, Ted Sadilek/WA8MFQ, and Chris Ranes/NS8Q

CLUB MOVE & TOWER/ANTENNA WORK:

1. The Club move has been completed except for taking down the two towers (incl. the VHF/UHF vertical, HF tri-band, and 30m vertical). The wire antenna was taken down the day of the move.
2. The hole in the wall has been plugged with screen and two layers of spray-in-foam. Thank you Ted for purchasing the foam and John for plugging the hole.
3. We need to find somebody with a gin-pole to help us take the towers down.
4. John is going to contact Ron Harger/WD8BCS to see if he has a gin-pole we can use or know where we can find one.
5. John offered the use of his trailers to help transport tower pieces.
6. John also will bring his saw and a generator to power allowing us to cut the tower legs.
7. The date chosen to take down the towers is Saturday, May 20th at 9:00 AM.
8. We are looking at a couple different Saturday's at the beginning of June to go in and do a good cleaning at our new location.

501(c)3 STATUS UPDATE:

1. Tom was able to obtain the last document we needed to finalize the paperwork. We were missing the original Articles of Incorporation filed with the State of Michigan, and he was able to find them at the Office of Licensing and Regulatory Affairs. The cost to retrieve the documents was \$20. The document was faxed to Hector at BizCharity who is filing our paperwork for us.
2. Clyde mentioned there are grants available for our club to take advantage of once we obtain our non-profit status.

HAMFEST UPDATE:

1. Dan/KD8YDE is not going to finish his food license exam before Hamfest get here. John mentioned Terry, a trainer he knows from Speedway, will sit with us during this year's Hamfest to make sure we are covered on everything pertaining to food safety.
2. All positions have been covered except for food. Dan/KD8YDE will be there to cook when he can and John /KD6KCX said he is willing to help cook to take the load off of Dan.
3. We still need a person to be the Food Chairperson. The main responsibilities of the Chairperson are to pick up food items and generally oversee the "kitchen". We are going to use the same food quantities as we did last year, except we will be offering a "non-pork" option due to requests made last year.
4. Clyde is working on a master binder so if someone else takes over the Hamfest organization, they will have something to work with.
5. Clyde mentioned he talked to somebody at the Summit in Dimondale who like to work with non-profit organizations. If our Hamfest ever expands beyond what our current location can handle, the Summit might be a possible location for us to move to. If we want to sell our own food, we would be required to pay \$50 or we can elect to have our attendees purchase concessions there and we will not have to pay anything extra. We would only miss out on any profit coming from concession sales.
6. Clyde is working on building up our list of vendors for this year's event.
7. We still do not have a Grand Prize for our drawing. We need somebody to donate a radio this year or donate the funds to help purchase a radio.
8. There is a \$50 gift certificate coming from DX Engineering with other ARRL gift certificates coming as well.

FIELD DAY UPDATE:

1. Brian Wellwood/KD8ONC will be unable to sponsor the GOTA station this year due to traveling out of the country.
2. We need to find somebody who can supply a complete station for us to use.
3. The club currently owns two 8-foot tables, two folding tables, and sixteen folding chairs. Because we are no longer able to use tables and chairs from the Salvation Army, we are asking our memberships to bring tables and chairs for the Club picnic during Saturday afternoon. If you can help in any way with this need please let someone on the Board know.
4. Clyde will be working as a "greeter" to help welcome people to Field Day, show them around, and answer any questions they may have.

CLUB OPENHOUSE:

1. We are discussing the possibility of having an open house at our new club location during the month of September.
2. We want to make it late enough in the year so the MSU students and members can join us.
3. Russ will be the Chairman of the event, and will be the main planner and organizer. Besides having a cookout, he would like to put on a demonstration of the use of different Ham Radio modes.

4. **Tom made the motion that Russ become the Chairman, Ted seconded the motion, and the motion passes.**
5. The open house will be on a Saturday.
6. The August meeting will remain the second Friday of the month as usual.

MISCELLANEOUS:

1. Tom will be unable to make the meeting next Friday due to attending training for his new job. Russ will be there to take his place.
2. John will donate four large air tires on castors for the "coffin" that holds our canopies and things for Field Day. He needs somebody to empty it out, and he will install them. It will make the overall height about 4" taller, but will allow for easier transportation, especially when we need to roll it through grass.

ADJOURNMENT:

1. **With there being no further business to discuss, John made a motion to adjourn the meeting, Ted seconded the motion, and the motion passes.**
2. Meeting adjourned at 7:15 pm.

Respectfully submitted by,

Chris Ranes - Secretary

Central Michigan Amateur Radio Club Meeting Minutes

Date: May 12, 2017

Time: 6:00 PM

Location: Ladies Night / Ziegenbein Award Banquest - Delhi Cafe

OPENING:

1. Vice President Russ Fitzgerald/N8FZ opening the meeting at 6:18 pm.

APPROVAL OF REPORTS:

1. **Treasurer's Report:** Sam/N8FPR made a motion to accept the Treasurer's Report in the May Scope. Leota/KD8SQD seconded the motion, and the motion passes.
2. **Secretary's Report:** Clyde/K8CPT made a motion to accept the Secretary's Reports in the May Scope. Ted/WA8MFQ seconded the motion, and the motion passes.

RADIO ROOM RELOCATION:

1. A flyer is available with maps and directions on how to get to our new location in Mason.
2. The June meeting will be our first meeting in our new building.
3. Next Saturday, May 20th is the day we have set up to take down all our antennas and towers and move them to Mason. We are looking for help with that project. We will begin at 9:00 AM. See Clyde for more information.

UPCOMING VE SESSION:

1. Tomorrow we are having a VE session at the usual location at Fire Station #44 in Lansing.

FIELD DAY:

1. Field Day is coming up next month and will be covered in more detail at the June meeting.

CMARC HAMFEST:

1. Our outdoor Hamfest is coming up in July and are in the need of volunteers. Please see Clyde/K8CPT for more information and if you are able to help out.

CLUB OPENHOUSE:

1. Russ/N8FZ has volunteered to plan our club openhouse at our new location in Mason. We are currently looking at dates towards the end of Summer on a Saturday. This will give us time to get the towers, antennas, and radio set up. We are planning on having demonstrations on the types of modes we can use in Amateur Radio. The demonstrations will be geared towards the general public in order to show them who we are and what we do.

ADJOURNMENT:

1. With there being no further business, John/KD8NNQ made a motion to adjourn the meeting.
2. Sam/N8FPR seconded, and the motion passes.
3. Meeting adjourned at 6:26 pm.

Respectfully submitted by,

Chris Ranes - Secretary

W9DXCC convention (Sept. 15-16)

Dear fellow amateur radio operator and Midwest ham club contact:

It's our hope that you might help us spread the word about the 65th annual W9DXCC DX Convention and Banquet on Sept. 15-16, 2017, in Schaumburg, Illinois. Please consider sharing the following information with your members via e-mail, website or word of mouth:

(May 21, 2017) – Online registration is now available and much of the program is in place for the 2017 W9DXCC DX Convention and Banquet in suburban Chicago. This year's keynote speaker will be ARRL President Rick Roderick, K5UR. The ARRL has approved the gathering as an Operating Specialty Convention. Discounted hotel rooms can also be booked now.

Sponsored by the Northern Illinois DX Association, W9DXCC will also offer Contest University and DX University programs on Friday, with presentations for new and veteran DXers and contest operators. The daylong session on Saturday will feature speakers, exhibits, QSL card checking, a CW pileup contest and many valuable prizes. The evening banquet is a time to relax and enjoy our keynote speaker. For non-ham family members, Woodfield Mall, which offers a wide array of shopping, is one traffic light south of the convention site at the Hyatt Regency Schaumburg, 1800 East Golf Road.

Updates and Registration: <http://w9dxcc.com/>

For more information: John McCormick, K9KE@arrl.net

CLASSIFIEDS

Gregg Mulder / WB8LZG
(517) 646-6257 after 5pm

\$5 Each

Cleaning off the book shelves in the shack. I have the following books available. Many are in "brand new" condition. Good time to stock your library at a big savings!

- The Joy of QRP by Ade Weiss (autographed copy)
- Your QRP Operating Companion
- The Secret Wireless War by Geoff Pidgeon
- The History of QRP 1924-1960 by Ade Weiss
- Interference Handbook by Nelson
- The Contest Cookbook
- Keys II the Emporium by Dave Ingram
- International QRP Collection by George Dobbs
- Radio Projects for the Radio Amateur Vols 2, 3, & 4

Ed Oxe / W8EO
eaoyer@gmail.com

\$90 or Best Offer

Alinco DJ-V57T HT for 2 meters and 70 cm. Radio includes a speaker mic and car battery charger. It runs 5 watts max and has 200 memories.

Gregg Wesley / KD8PA
(517) 614-6573

Aluminum Tubing, Masts, and other odds and ends for antenna building.

Jason McLaughlin / KC8RBK
(517) 712-0478 or
kc8rrrbk@gmail.com

\$150

Tytera MD-380 DMR Handheld Radio

Brian Monaghan / KC8QWJ
(517) 219-8183

FREE

(4) 1.2 meter Satellite Dishes

Jim Hein / K8UHF
k8uhf@sbcglobal.net

\$675

Icom IC-746 Transceiver HF/6/2 meters, all mode, 100 watts on all bands, includes hand mic HM-36, Voice Synthesizer UT-102, power cable, built-in auto tuner, Owners and Service Manuals, and Original Box.

\$100

Icom IC-SM-8 Desk Microphone, includes two cables, original box, and manual.

\$750

Both Radio and Desk Microphone together.

\$12

Radio Shack 21-533 SWR, Field-Strength Meter, 3-30 MHz, Handles up to 1,000 Watts, Like New with original box and manual.

\$300

PC Electronics ATV Transceiver TC70-20S, 20 watts, includes video generator for playing video from USB, SD Flash Cards, etc., Color Camera and 12vdc power cube, with a Verifocal lens, wall mount, 5" color TV/monitor, will run on AC or DC, cables, and manuals.

\$550

For the entire ATC Transceiver package above plus a Mirage D1010 ATVN Amplifier. 100watt amp, 50 watt average, video output with only 1 watt drive.

Ed Hude / WA8QJE
WA8QJE@arrl.net

517-676-4480 between 9am and 6pm on Weekdays.

\$150

Icom IC2300H, 2 meter mobile, like new condition, never used mobile with Radio Shack DC power Supply, photocopy of instruction manual included. For more information go on line to Icom website.

\$45

One, DPD Productions, 2 meter Blade Indoor antenna. Rated at 3dbi gain, half wave, 58 inches in height, includes approximately 18 feet of RG8X coax. Has plastic hook that allows it to hang from some types of indoor window or patio door curtain rods. Gently used inside only. For more information go on line to "dpdproductions.com"

CLASSIFIEDS

THE FOLLOWING EQUIPMENT LIST IS FOR SALE. THE EQUIPMENT SALE IS FOR (AAR5CA) - JIM HARVEY'S ESTATE						
MANUFACTURER	EQUIPMENT	DESCRIPTION	SERIAL NO.	YR MANUF.	SALE PRICE	NOTES
KENWOOD	TS-570S	160-6M HF XTR	90400014	2007	\$ 700	
KENWOOD	TS-570D	160-10M HF XTR	60700019	2004	\$ 600	
KENWOOD	TS-480 DSP SAT	160-6M HF XTR	300059	2008	\$ 1,000	
KENWOOD	TR-9000	2M ALL MODE XTR	110344	1982	\$ 195	
KENWOOD	TM-2550A	2M FM XTR	80383	2006	\$ 95	
KENWOOD	TM-D700 (DATA)	144/440 MHZ FM XTR	60100177	2004	\$ 200	
KENWOOD	TH-D72A	2M XTR W/ CHARGER & SPEAKER MIC	B1900040	2013	\$ 335	
KENWOOD	TH-79A	DUAL BAND W/ CHARGER	10900005	1995	\$ 180	
KENWOOD	TH-315A	220 FM XTR	10500038	1990	\$ 65	NO ANTENNA, NO CHARGER, GOOD BATTERY
KENWOOD	SH2P4	SPEAKERS	NA	NA	\$ 10	
ICOM	IC-2200H	2M FM TX, FM & AM RX XTR	510990	2012	\$ 110	
ICOM	IC-2100H	2M FM XTR	66904	2006	\$ 95	
ALINCO	DR-235T	220 FM XTR	T10073	2006	\$ 195	
MIRAGE	B108	2M 10-80W FM-SSB AMP	2397-480	1992	\$ 125	
SCS	PTC II USB	MODEM	NA	2007	\$ 750	
TIGERTRONICS	SIGNALINK USB	AUDIO MODEM	NA	2012	\$ 75	??
TIGERTRONICS	SIGNALINK USB	AUDIO MODEM	NA	2012	\$ 75	
HEIL	HEADSET	HEADSET	NA	NA	\$ 50	ROUGH SHAPE
MFJ	MFJ-941E	VERSA TUNER 2	NA	4/2/1996	\$ 75	

If you are interested in purchasing any of this equipment or would like more information on a specific piece, please contact Geff / N8CE at 517-626-6044 or richard0g@frontier.com. If you are calling Geff, please make sure you are calling from a line that has a name attached to it, and not one that is "blocked". He will not be able to receive the call if you do.

Greater Lansing Nets

The “**Central Michigan Slow Scan TV Net**” meets every Sunday evening from 7:00- 8:30pm on the 145.39 repeater (PL 100 Hz), with Net Coordinator Carl Canfield/K8YHH. EVERYONE is welcome to join in and have fun learning and using this interesting and useful mode of communication. Other digital modes will be explored from time to time. For more information, call Carl at: (517) 755 6627.

The “**Ladies Tea Time Net**” meets every Tuesday night at 7:00 pm on the 145.39 repeater (PL 100.0), with Net Coordinator Janine Lieber/KK6GYM.

The “**Quarter Century Wireless Association Net**” also meets every Tuesday night but at 8pm and on the 146.70 repeater (PL 107.2 Hz), with Net Coordinator Don Tillitson/WB8NUS.

The “**Mid-Michigan Information & Trader’s Net**” meets every Wednesday evening at 7:00pm on the 145.39 repeater (PL 100 Hz), with Net Coordinator Clyde Tompkins/K8CPT.

The “**MSUARC Friends and Info Net**” meets every Thursday evening at 7:00pm on the 145.39 repeater (PL 100 Hz), with Net Coordinator Gregg Mulder/WB8LZG. The first half of the net is time for chatting, while the second half is for Morse Code practice. If you wanted to learn Morse Code, but didn’t know how to go about doing it, then please join us. The speeds are kept down to a minimum, to make it easier to learn.

ALL are welcome on these nets, so be sure to check in to show your support. And as with all Nets, 3rd party check-ins are welcome, but must have Control Operator present at check-in time.

CMARC Officers and Appointees

President / Webmaster
Tom Rocheleau, WA8WPI

Vice President / Youth Liaison
Russ Fitzgerald, N8FZ

Treasurer
John Doornhaag, KD8NNQ
(517) 672-2759

Secretary / Scope Editor
Chris Ranes, NS8Q
(517) 487-8376

Director
Ted Sadilek, WA8MFQ
(517) 881-6093

Director / Salvation Army Liaison
Clyde Tompkins, K8CPT
(517) 927-3801

Under 22 Director
Sam Fitzgerald, N8FRP

Cards & Flowers
Jane Hosford, KC8FSK
(517) 515-7610

Club Contact
Don McLain, KB8RAD
(517) 930-7707

Club Historian
William Cote, WD8NYW

Antenna Projects Chairman
Gregg Mulder, WB8LZG

Lansing ARPSC Liaison
Jim Hannahs, KC8QWH

QSL/Awards Manager
Don DeFeyer, KC8CY
(517) 641-4533

Photographer
Kenneth Hazlett, N8BVV
(517) 348-5513

Meetings
Held Monthly on the second Friday of the month at:
Lansing Mason Ambulance Training Facility
807 Kerns Rd., Mason 48854
at 7:00 PM.

Board Meetings are held the first Saturday of the month at the club house beginning at 5:30 pm.

CMARC Calls:
W8MAA & W8PLP

LCDRA Officers and Appointees

President
John Imeson, N8JI
(517) 449-1517

Vice President
Don Tillitson, WB8NUS
(517) 321-2004

Secretary
Ron Harger, WD8BCS
wd8bcs@arrl.net

Treasurer
Jeff Oberg, KB8SXX

Director
Jan Bradfield, KC8BFB
(517) 202-1779

Director
Don McLain, KB8RAD
(517) 930-7707

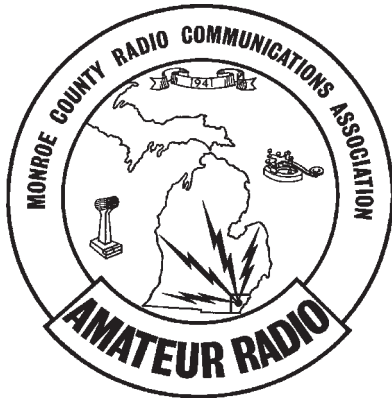
Director / Membership Chair
Michael Boensch, W8MKB

Repeater Trustee
Dennis Boone, KB8ZQZ

Meetings
Held Quarterly on the third Thursday of the month at:
Fire Station #48,
Marshall St, Lansing
at 7:00 PM.

LCDRA Call:
W8BCI

The Scope is a monthly joint publication of The Central Michigan Amateur Radio Club and the Lansing Civil Defense Repeater Association. Please send all articles, classified ads, or other information to the editor, Chris Ranes, NS8Q, at cmarcscope@gmail.com. **The deadline for each issue is midnight on the 20th of the preceding month.**



MONROE HAMFEST

and Computer Show

Father's Day - June 19, 2016

7:30am to 1:00pm - Set-up 6:30am Presented by:
The Monroe County Radio Communications Association

Monroe County Fairgrounds

M-50 at Raisinville Rd. (2 Miles west of Monroe)

FREE PARKING

Indoor Facilities / Trunk Sales
Computers and Equipment
Distributors / Hot Food

QSL Card checking by Stan Arnett AC8W

Over Night Camping \$25 (electric included)



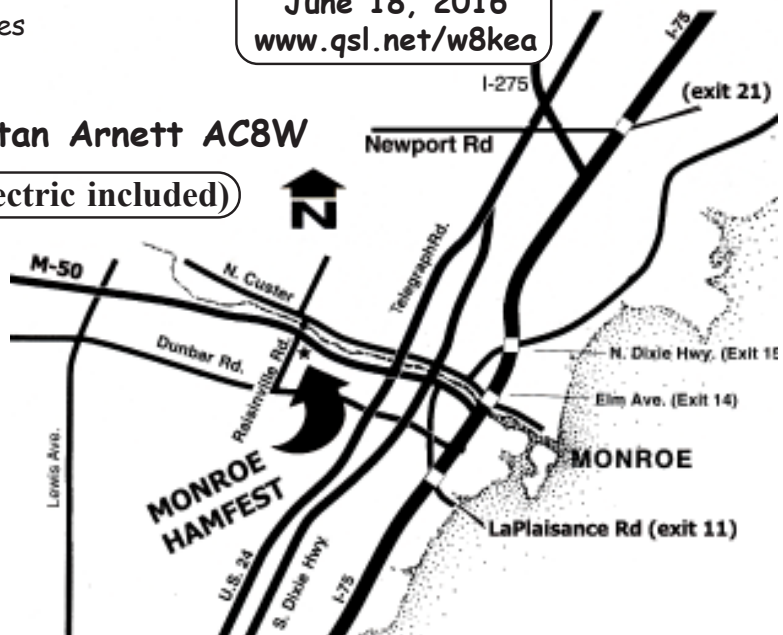
Tables indoor 8': \$15 each, does not include admission ticket. Electric available in all buildings, bring cords.

Trunk 8' Spaces: \$10 each, does not include admission ticket.

Tickets Advance \$6 each, come with 2 stubs for drawings.

Midland Swap
Midland, MI
Saturday
June 18, 2016
www.qsl.net/w8kea

Talk-in
146.72/12



Ticket, Trunk Sales, & Table Reservations online at: <http://www.mcrca.org>

Mail to: Fred VanDaele KA8EBI, 4 Carl Drive, Monroe, MI 48162, ka8ebi@yahoo.com

Name _____ Call _____ e-mail _____

Address _____ City _____ State _____ Zip _____

No. Tickets _____ No. Trunk Spaces _____ No. of Tables _____ Amount Enclosed _____

Advance Tickets \$6ea. with 2 stubs / 8 ft Trunk Spaces \$10 ea. / 8 ft Tables \$15 ea.



Michigan International Speedway, Brooklyn, MI

October 7 & 8, 2017

Indoor Commercial Vendors
Huge Paved Flea Market
Loads of Parking
KB6NU's One-Day Tech Class
Great Food Available
Mobility Scooters Available
Unique Location
Saturday Evening Banquet

Forums
Workshops
Camping
VE Testing
Fox Hunt
Door Prizes
Room to Grow
2 Days of Fun!

- 2017 ARRL Great Lakes Division Convention
- ARRL President Rick Roderick, K5UR will be in attendance
- Tickets are now available online (\$17 in advance, \$20 at event)
- Special Promotion for limited time: \$16 in advance
- See link below:

<http://www.mispeedway.com/About-MIS/Special-Events/Great-Lakes-HamCon.aspx>



www.glhamcon.org

Info@glhamcon.org

Fellow ham,

Plans for the Great Lakes HamCon at Michigan International Speedway are moving forward. The event has recently been approved as the site of the 2017 ARRL Great Lakes Division Convention. Volunteer help is needed, Event preparation has started and the pace will pick up as October grows closer.

Your skills and expertise are needed. Marketing and promotion is just one area. Do you have expertise in social media, website design, videography, graphic design or similar? We will have a presence at Dayton and many other hamfests over the summer. A robust program of forums will be staged at the event. Help will be needed staging the venue as well as setup and event day activities. Do you have contacts or relationships in the commercial side of ham radio that can help ensure an exhibitor comes to the event?

The success of Great Lakes HamCon depends on the engagement of the area hams and their clubs. Let us know how you can help. Send an email to volunteer@GLHamCon.org. Include where your interests lay and the skills and experiences you bring with you. Don't hold back, include those ideas that will make the event unique and special. If you just want to help out in general, that's fine, we need you.

Please forward this email to other hams. Include this in your club newsletter. Spread the word.

Thanks in advance for your help.

73,

Glen Ohlemacher - K8GO

President - Great Lakes Amateur Radio Association

The Great Lakes Amateur Radio Association, a consortium of clubs formed to host Great Lakes HamCon

volunteer@GLHamCon.org



Central Michigan Amateur Radio Club

W8PLP/W8MAA

Membership Form



For new CMARC applicants: Please complete all sections.

For existing CMARC members: Please include your Name and Call Sign along with only the information you would like changed.

Mail completed form to Membership Chairman (see address below) or take to Club meeting for processing. Please include payment if applicable. (Checks or Money Orders should be made payable to 'CMARC').

John Doornhaag | 1165 S. Ainger Rd. | Charlotte, MI 48813-9540

Membership Type		<input type="checkbox"/> New	<input type="checkbox"/> Renewal
Full:	<input type="checkbox"/> Annual Dues: \$20.00 <i>Includes voting rights and an annual subscription to The Scope.</i>		
Associate:	<input type="checkbox"/> Annual Dues: \$5.00 <i>Includes an annual subscription to The Scope but NO voting rights.</i>		
New Licensee:	<input type="checkbox"/> Annual Dues: 1st Year Free		
Under 18:	<input type="checkbox"/> Annual Dues: Free		

Contact Information	
First Name: _____	Last Name: _____
Call Sign: _____	License Class: _____ Phone #: _____
Address: _____	Apt/Unit: _____
City: _____	State: _____ Zip Code: _____
Birthday: _____	Anniversary: _____
Email: _____	Sign up for the List Serv: <input type="checkbox"/> Yes <input type="checkbox"/> No
<small>Note: Email is used by club officers to communicate club business and may appear in the club directory for use by club members. CMARC does not share/sell contact information to other parties.</small>	

Club Communications	
Newsletter Preference (select only one option)	<input type="checkbox"/> I will download from the web site.
	<input type="checkbox"/> Please mail to my address (Note: Direct mailing increases postage costs.)
ARRL Affiliation	<input type="checkbox"/> I am an ARRL member



Lansing Civil Defense Repeater Association

Membership Form

For new LCDRA applicants: Please complete all sections.

For existing LCDRA members: Please include your Name and Call Sign along with only the information you would like changed.

LCDRA oversees the operation and maintenance of all Lansing Area repeaters. Use of the repeaters does NOT require LCDRA or CMARC membership, but your support is welcome and appreciated.

Mail completed form to Membership Chairman (see address below) or take to a meeting for processing. Please include payment if applicable. (Checks or Money Orders should be made payable to 'LCDRA').

Michael Boensch | 1897 Sunnymede Ln | Lansing, MI 48906-1356

Membership Type		<input type="checkbox"/> New	<input type="checkbox"/> Renewal
Full:	<input type="checkbox"/> Annual Dues: \$15.00 <i>Includes voting rights and an annual subscription to The SCOPE.</i>		
Family Mbrs:	<input type="checkbox"/> Annual Dues: \$7.50 ea. No. of Family Members: _____		
ARRL Affiliation	<input type="checkbox"/> I am an ARRL member		

Contact Information	
First Name: _____	Last Name: _____
Call Sign: _____	License Class: _____ Phone #: _____
Address: _____	Apt/Unit: _____
City: _____	State: _____ Zip Code: _____
Birthday: _____	Anniversary: _____
Email: _____	
<i>Note: Email is used by club officers to communicate club business and may appear in the club directory for use by club members. <u>LCDRA does not share/sell contact information to other parties.</u></i>	

Central Michigan Amateur Radio Club
P.O. BOX 27321
Lansing, MI 48909-7321

Central Michigan Amateur Radio Club



THE SCOPE



Lansing Civil Defense Repeater Association

centralmiarc.com Serving Our Community Since 1921 lcdra.net

CMARC	ARPSC	LCDRA
		
WWW.CENTRALMIARC.COM/	WWW.LANSINGARPSC.COM/	WWW.LCDRA.NET