



THE SCOPE

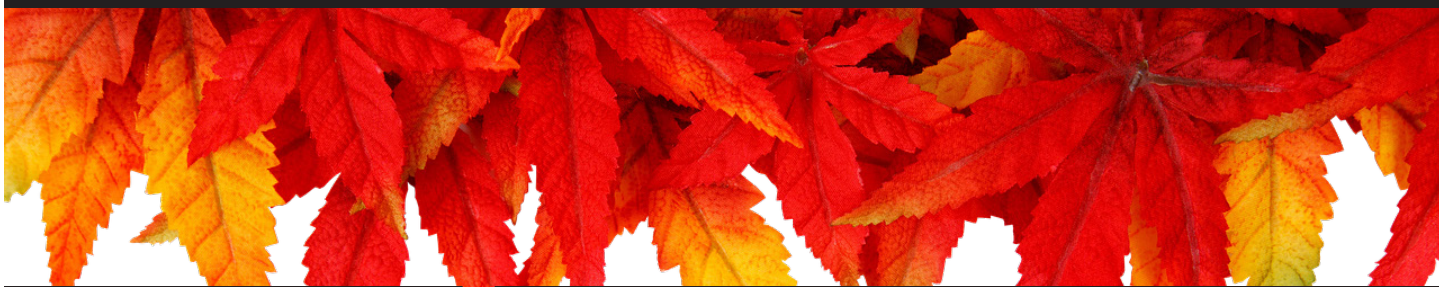


The Central Michigan Amateur Radio Club and Lansing Civil Defense Repeater Association

VOLUME 18, ISSUE 5

SEPTEMBER / OCTOBER 2018

CENTRALMIARC.COM



Inside

Treasurer Report	Pg 2
Birthdays/Anniversaries/	
Upcoming Meetings	Pg 3
VE Exams	Pg 4
Dakota DX	Pgs 5-6
MichiganSection	Pg 6
Re-branding Ham Radio	Pg 7
3D Printed Parts for Radio	Pg 8
Meeting Minutes	Pgs 9 - 21
Classified Ads	Pg 22
Leadership Listing / Nets	Pg 23

Fall Class Opportunities

General Class

Tom Rocheleau (WA8WPI) began a 9-week course, which runs every Saturday until December 6, 2018.

Class begins at 10:00 AM at our meeting location of 807 Kerns Rd, Mason, Michigan 48854. Expect the class to run for two hours.

Electronics Class

Gordy Smith (KE8JKS) began a course in electronics running every two weeks. The next class session will be at 12 PM following the General Class on Saturday, October 20, 2018, at the same location in Mason.

For more information contact the individual instructors or the Club contact Don McLain (KB8RAD) at (517) 930-7707 or KB8RAD@arrl.net.



Treasurer's Reports 2018

Daniel Beuchert / WX8MOJ- CMARC Treasurer

Bank Balances for July	
Beginning Balance	\$2,889.55
Total Monthly Income	\$1,449.23
Total Monthly Expenditures	(\$549.19)
Total Business Checking	\$3,789.59
Petty Cash	\$1.00
Outstanding Checks	(\$125.00)
Sub Total + Petty Cash	\$3,665.59
Primary Share Accounts	
Humphrey's Fund	\$383.62
Building Fund (Club Station)	\$19.09
Field Day	\$528.19
Total Net Worth	\$4,596.49
Youth Fund Balance*	\$254.32
* Separate from CMARC Funds	

Bank Balances for August	
Beginning Balance	\$3,789.59
Total Monthly Income	\$160.60
Total Monthly Expenditures	(\$0.00)
Total Business Checking	\$3,950.19
Petty Cash	\$1.00
Outstanding Checks	(\$0.00)
Sub Total + Petty Cash	\$3,951.19
Primary Share Accounts	
Humphrey's Fund	\$383.65
Building Fund (Club Station)	\$19.09
Field Day	\$528.23
Total Net Worth	\$4,882.16
Youth Fund Balance*	\$254.34
* Separate from CMARC Funds	

The Scope is a bi-monthly joint publication of the Central Michigan Amateur Radio Club and the Lansing Civil Defense Repeater Association.

Please send any articles, classified ads, or other items to the Editor, Chris Ranes, NS8Q at cmarcscope@gmail.com. Pictures should be mailed in .jpeg format, and articles in Microsoft Word or TXT format.

The views and opinions expressed by our contributing authors do not necessarily reflect the views of the Central Michigan Amateur Radio Club or the Lansing Civil Defense Repeater Association.

The November meeting is when we accept nominations for the Board. If you would like to nominate yourself or someone else (with their permission of course!), please plan to attend that meeting.



September Birthdays:

1st Jim Stoddard / KA8TLC
Matthew Taylor / KD8JIA
7th Jeff Beck / W8EAS
11th Jean Wixson / K8MUS
14th Tom Shaver / KC8NJK
17th Jeremiah Sevrey / KC8EIA
24th Kelly Fitzgerald / N9PC
Erich Vedder / KD8YUZ
26th Vicki Dembinski
Tim Schuchaskie / KE9HIY
28th Richard Greeson / KD8HLR
30th John Hosford / KC8QZB

September Anniversaries:

4th Tom Shaver / KC8NJK
6th Erich Vedder / KD8YUZ
10th Bill Thompson / KE8KFA
Matt Warncke / W8MAT
11th Herbert Terbrack / KB8QEZ
12th Jon / N8SUA and Jessica Seaver
Randall Stortz / K8VY
16th Tom / WA8WPI and Carolyn Rocheleau
23rd Eugene / KK4DIY and Susie Brown

November Birthdays:

1st Dan Beuchert / WX8MOJ
3rd Tim Isley / KE8BVV
Elizabeth Johnson / KD8HRH
9th Mark Carter / KD8YUY
15th Matt Miller / KD8OOS
Beverley Stoner / K8ZJU
16th Stephen Binns / KD8WVG
18th Roger Barnhill / AB8RX
Linda Dunahoo
22nd Jason Burk / KD8STQ
24th Bernard Gaffney / W8BFG
Don Tillitson / WB8NUS
27th Bill Thompson / KE8KFA

November Anniversaries:

1st Doug Goodrich / N8ECL
23rd Gregg / WB8LZG and Vicky Mulder
26th Jimmy / KD8IWQ and Linda Dunahoo

October Birthdays:

2nd Derek Flory / KD8VRS
13th Jane Hosford / KC8FSK
14th Robert Mann / WD8OEV
19th James King / KC8UGV
20th Ryan Parks / W8SIR
23rd Michael Pedersen
30th Raymond Jenks / KD8ZDX

October Anniversaries:

4th Mike Holcomb / WX8MH
10th Ryan Parks / W8SIR
19th Dennis Shubitowski / NS8H
24th Jason McLaughlin / KC8RBK
29th William Smith / KD8ZFR
31st Alan Shaw / WB8YOX

Upcoming Meetings:

CMARC Monthly Meeting

When: 7:00 pm, Friday, October 12, 2018

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

ARPSC Monthly Meeting

When: 7:00 pm, Monday, October 15, 2018

Where: Lansing Fire Station 48
off Marshall Rd. South of Grand River.

LCDRA Quarterly Meeting

When: 7:00 pm, Thursday, October 18, 2018

Where: Lansing Fire Station 48
off Marshall Rd. South of Grand River.

ARRL Volunteer Exams



Sponsored by the "Ingham County VE Group"

To best accomodate the various schedules of those wishing to test, the Ingham County VE team meets on either a Saturday morning or Thursday evening, every other month. We test in the Community Room at Lansing Fire Station #44 1435 E Miller Rd., Lansing MI 48911-5322.

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

Exam Results

The "Ingham County VE Group" would like to congratulate the following people who earned new or upgraded Amateur Radio licenses:

Saturday, September 8, 2018

Technician Class Licenses Processed

Joshua Scheuneman - KE8KOI

Examiners Participating in this Test Session

John Doornhaag - KD8NNQ

Shawn Crawford - WA8MXJ

Kelly Fitzgerald - N9PC

Chris Ranes - NS8Q

Judy Crawford - K8JKC

Russ Fitzgerald - N8FZ

Ben Barker - WD8OVL

Ted Sadilek - WA8MFQ

Thursday, October 4, 2018

Technician Class Licenses Processed

Giuseppe Spagnuolo - KE8KRP

Timothy Coppess - KE8KRO

General Class Licenses Processed

Giuseppe Spagnuolo - KE8KRP

Andrew Cantu - KE8KOW

Examiners Participating in this Test Session

John Doornhaag - KD8NNQ

Ted Sadilek - WA8MFQ

Chris Ranes - NS8Q

Ben Barker - WD8OVL

Upcoming Exam Sessions

November 10, 2018 @ 11:00 AM

December 6, 2018 @ 7:00 PM

Dakota DX, more radio adventures from the prairie.



When my son Jordon, KC8QYU moved out to Minot, ND a few years ago, I was fortunate to be able to bring radio equipment along. Each trip brought a new QTH and new antenna configs. (You can read about some of them in Nov&Dec2015 NAQCC newsletters) Well, this is the story of the vertical.

In 2014 I brought out an old 5BTV vertical in pieces and assembled it in some spare time. He lived in an apartment complex with oh, 8 or 10 units. NO trees! So the dipoles I brought along... Useless! Well, they did have a small pond, so the plan was to put the vertical up at night, and take it down after each use. One afternoon we pounded a stake in the ground to mount the 5BTV. All was going well, and we soon had it in the air with feed point about 2 feet above the ground. Ran the RG58u into the window, and attached a few radials, one per band. Connection to the rig confirmed that indeed there were stations, as the receiver jumped to life.

All going smoothly until I'm testing each band for SWR at about 30 watts. Jordon is outside putting tools away when he notices

something very ODD.

All of the apartment complexes garage doors are opening and closing "by themselves." (quite a site to behold) hi hi

My ol' pal Murphy. Shoulda known. It was just going too doggone easy. Well. We tried moving radials, moving the whole thing, no radials. Even some "words of persuasion," QRP of 10 watts! Even in desperation, we tried an indoor dipole, taped around the ceiling. No go! Every time I keyed the rig, all the doors went wild. We pulled it all down in disappointment and packed it away. So ended my first episode of "prairie propagation."

Then in 2015, Jordon bought a home with some acreage and trees! After an initial short FD style operation in the summer with the dipoles hanging in the trees at 25-30 ft. I asked Jordon and his fiancé about the possibility of a Sweepstakes op from North Dakota. They agreed, and I got special call sign for the Sweeps week, NoT. Had a blast, but used the dipoles again, no vertical. (Story also in past newsletter)

On a visit last spring 2018, I pulled out the vertical and placed it up on a wooden fence post. With the feed point at about 6 ft above ground. I thought I had more wire for radials, but only had wire for 2 radials for 20m, and 1 for 40m! No time to run to the hardware store for more. I got on the air with it and made several good Stateside QSOs, but it didn't have any punch. Only a few DX

QSOs. Lacking time to play radio, I resolved to try it again with a better radial system on the next trip out.

When I got home, I pre-measured and cut 4 radials per band, (NR 18 gauge enameled copper) and coiled them all neatly in my laptop case. My son was to be married in August, and we had several days before the wedding to visit with family, and maybe I'd have time to play a bit of radio. As it turned out, I did manage to get on the air one afternoon while others doing their thing, I got out a shovel and spaded in the 20m radials. That way the lawn mower wouldn't eat them later. I wanted to get the 40m wires in the ground too, but no time..... I also wanted to operate for a bit. Did I mention it was a record breaking 102 Degrees in Minot? Whew! So I connected the new 20m radials to the 3 wires I already had in the previous operation, and rolled those out on the ground in the ENE direction. Now, with 7 radials, I attached the feedline and ran it over too the rig parked on a picnic table in the shade. Cool glass of ice water in hand, I sat down and thought "This is just like Field Day." Now what to write on.... all I had handy to log on was the back side of old Sweeps log sheets. No computers. No Cell Ph app. No DX summit. Just me, n a key, paper n pencil and an untested vertical. How could I lose?

I powered up the Yaesu FT 990 in hopeful anticipation. Would I get the improvement I worked for? Or would it be just so so mediocre???

See Dakota DX, Page 6

As I tuned down to the band edge, I was not disappointed! It seemed most of Europe and many stations in Africa were coming in “loud n clear.” Ok! Bands open, I thought as I plugged in the paddle. A quick check of 20m showed SWR was under 2 to 1, so hey, I started answering CQ’s. My first try at about 80 watts bagged EA8DQ in the Canary Is. Yes! Weeee Doggies! The ol’ vertical still got some zing! Still nobody around..... me alone, and tuning around the band. It proved very rewarding fer a bit over an hour. I was grinning ear to ear as I put these stations in the log. N9MM doing POTA in Iowa. Then CN8KD,

EA1NE, G3HGE, LZ1WR, F5PRH, CT1BQH, who I also exchanged SKCC Nr’s with! Alas, the gang came back home, and I had to call it quits fer the night. As I unplugged the radio, I could hardly believe my good luck. Yeeup may have to think about another Sweepstakes operation in Minot ND. “the ND section alone is worth 3db on your signal” As I was winding up the coax and radials to store until the next time I thought, “Great run !” Yes, the bands were open perty good, and timing right. But it also goes to show that with a good radial system under it, even the lowly vertical can give a good account of itself. When we visit Minot again, the 40m and 15m radials are next.

The rest of the week went by way too quickly, as Nr 1 son Kevin KC8QZE, es XYL came up from California, and Nr 2 son Jordon KC8QYU Got married to Ali, a beautiful bride from VE5-land, es gained a new XYL! Sort of a whirlwind of fun, and blur of family and friends having a great time together.

We said our tearful goodbyes and headed out the next morning to the airport. As our plane lofted airborne, I was checking out N7IV’s contest grade antenna farm on the north side of town. What a tower! I just gotta get back fer Sweeps! As they say in ND. “Why not Minot?” hey? ■

September 2018 Michigan Section Report

By: Jim Kvochick / K8JK

Greetings to all the Amateurs of Michigan,

Just this week, I had a need to visit a “big box” store, and they already had Christmas items out for sale. I know that summer is over, but I hadn’t realized the calendar had accelerated that much! There’s still time to do antenna maintenance and get ready for a “Pure Michigan” winter.

I Am Happy to Help, But....

I recently received a voicemail that started out like this “...I’m an amateur radio operator and I need some help...please call me at (phone number). No name, callsign, or what the issue(s) are. It gets better, for when I called the number, I was informed that her husband had left his phone in her car. I asked her to have him call me back, she still did not offer up a name or callsign. Of course, this all happened before I left for 4 weeks. So, I still have no other voicemail messages, and I still know nothing more. The bottom line is if you would like help, please meet me part of the way.

Hurricane Nets and the Press

I’m getting lots of calls from various news agencies in the state of Michigan who want to know all about what amateurs in the state are doing to prepare for the storms looming on the east coast. I refer them to the ARRL resources called out on the ARRL web pages. You can too. This insures a consistent message in the press relative to amateur radio.

100 New Michigan Section Members by January 2019

Ok, here’s the ask. To prove a point, we need to add 100 new ARRL members to the Michigan Section roster by the end of the year. To encourage all of you to recruit, drop me a note after someone you’ve influenced has joined (with your callsigns). I will enter you into a small raffle (funded by me). These should be new members, not renewals. I’ve been told that this is impossible, but I think it’s easy goal. ■

ARRL President suggests that we “re-brand” Amateur Radio



This Week in Amateur Radio recently reported (<https://www.stitcher.com/podcast/this-week-in-amateur-radio/e/51325707>) on a speech given by ARRL president, Rick Roderick, K5UR, at the 60th annual West Virginia State ARRL convention held August 25th at WVU Jackson's Mill Conference Center. Here are some things that he had to say:

“Are we even relevant anymore as ham radio operators? Well, let's see: We're world communicators. We provide public service. We help in emergencies and disasters. We help save lives. We talk to the jungles of Africa...to the beaches of the South Pacific. We bounce signals off the moon. We talk to astronauts. We promote technology. We do positive things. So absolutely—we are relevant.”

“We've got to accept change and we've got to adapt if we're going to bridge that gap to that

next generation. So the question that I have here that I have challenged my colleagues at ARRL with is this: is it time to rebrand ham radio? Maybe we need to rebrand the American Radio Relay League. That's a pretty profound statement.”

Of course, I agree with K5UR on this and said so myself (<https://www.kb6nu.com/are-we-amateurs-or-what/>) several years ago. Unfortunately, according to the report, he retreated to the same old ideas that the ARRL has been spouting for years:

“Well I think we ought to get out there and stir things up. That's what I think we ought to do. I think you ought to go back and rejuvenate your club. Over the next year, get somebody into ham radio. The second thing I want you to do....I want you to help a ham that needs your help. And the third thing I want you to do is—if you're not a member of the American Radio Relay League, you need to join today...because you know that whether you like us or not, we're all you've got; ain't nobody else in

Washington DC helping us. I want you to ask yourself this question: don't you think it's time to give something back? Now I believe as a group, if we all did that we'll make a difference in this hobby as we go forward. Be a champion of ham radio. Let's work together and get it done. Thank you very much.”

I'd like to challenge K5UR and the ARRL to really stir things up. There are lots of us out here giving back by teaching classes, conducting exam sessions, and helping hams get on the air. That's not the problem.

What we need from the ARRL is real leadership, not just talk. Exhorting the troops is only going to go so far. For most hams, amateur radio is only a hobby, and they do what they can. It's really up to the ARRL to provide the leadership that ties it all together and provide the framework that will allow us all to be successful.

Saying, “Whether you like us or not, we're all you've got; ain't nobody else in Washington DC helping us” doesn't really cut it. You have to show people that you're really making a difference, not just say you are. ■

3D Printed Parts for Ham Radio



One of the things that I keep telling myself that I need to learn how to do is 3D printing. This morning, I ran across a couple more 3D printing projects for ham radio that I thought I'd pass along.

The first I found on reddit: 3D Printed Parts for Portable Tape Measure Yagi Designs (https://www.reddit.com/r/amateurradio/comments/963br3/3d_printed_parts_for_portable_tape_measure_yagi/). The summary on Thingiverse (<https://www.thingiverse.com/thing:3042505>), which is a website where “makers” share their designs, says:

These parts are made for use with 1-in. PVC pipe and 1-in. Harbor Freight tape measure steel. You can use electrical tape to attach the



A typical tape measure yagi.

element holders to the side of the pipe, and use the driven element bridge to give structural rigidity across the driven dipole element. I have used this with up to 5 elements on 2m with good success. When not using the antenna, just pinch the elements to remove them from the holders, and store them INSIDE the tube! you can add some end caps to make this ultra portable. Use these parts with any of the multitude of tape measure YAGI design guides online.

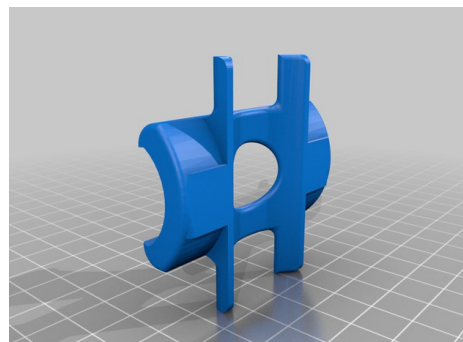
Here's a look at an antenna made with these parts:

The element holders are attached to the boom with electrical tape in the photo above. While I haven't tried it, I'd suggest that the antenna might be a bit more robust if you could screw or perhaps glue the holders to the boom.

There are lots of other cool amateur radio 3D printing projects available on Thingiverse (<https://www.thingiverse.com/search?q=ham+radio&dwh=415b6d8da129c3c>). Browsing through the list quickly, here are just two that look like they might be useful to me:

- Soldering Fingers (<https://www.thingiverse.com/thing:1725308>). This project looks simple and quick.

- μ Bitx Case (<https://www.thingiverse.com/thing:2925336>). I still gotta do something with the μ Bitx I



3D printed element holders.

bought. This looks like it might get me started.

Last week, I attended a 3D printing class at our local maker space, All Hands Active (allhandsactive.org), and now I feel like I can finally attempt a 3D printing project. I'm thinking about starting out with the simple Soldering Fingers project. If that goes well, I'll try a Raspberry Pic case and finally start using that in the shack. And, while these projects all seem pretty cool, I feel like I'm only scratching the surface.

Have any of you 3D printed anything cool for your ham radio projects? Is there another source of designs for ham radio 3D printed stuff besides Thingiverse? ■

CENTRAL MICHIGAN AMATEUR RADIO CLUB
BOARD OF DIRECTORS
MEETING MINUTES

July 7, 2018

Attendance

Current Board Members Present: Clyde Tompkins (K8CPT), Judy Crawford (K8JKC), Dan Beuchert (WX8MOJ), Shawn Crawford (WA8MXJ), Michael Boensch (W8MKB), Tom Rocheleau (WA8WPI)

Current Board Members Absent: Chris Ranes (NS8Q)

Guests: John Doornhaag (KD8NNQ)

Field Day Recap:

- There were over 30 visitors to Field Day
- There were 41 contacts for GOTA -- 11 GOTA operators
- SSB had about 200 contacts, CW over 500
- Some ideas for future Field Days:
 - More scoping out the setup beforehand
 - Pre plan who sets up where, parking, entrances and our perimeter more clearly marked
 - There was talk about establishing a Field Day committee for the continuous planning for Field Day including members from CMARC and the Lansing / Ingham ARPSC

Barn Raising - Radio Style (Idea from Russ N8FZ):

- Help out a new ham to build their station
- This could be beneficial, but depends on the execution
- We have elmers in the group, but we wouldn't want people to get burned out
- There was discussion about offering classes that help people learn what they need to for raising a tower
- Russ was given the blessing to pitch a committee to look for interest among club members

Food at Hamfest:

- Donations have been offered, but because of the licensing, food needs to be prepared by Judy
 - Raw products can be donated, but the food must be prepared by Judy
- Will be ordering the meats and other food items to have ready to prepare beforehand
- There will be no nuts in the food prepared for hamfest

General Hamfest:

- UBitX coming in for grand prize -- other prizes are coming in too
- A separate meeting will be organized 1 or 2 weeks before to plan operations
- There was discussion about if the hamfest grows to explore moving to the Summit (West Lansing)
 - Tables and chairs - would we provide them, or does the Summit have some available?
 - Would there be electricity costs?

- Costs for tables and/or electricity could be added to vendor tickets
 - This location would be dependent on 501c3
 - Further conversation will be had as an information gathering exercise
- DX Engineering isn't interested with the MI taxation law (their lawyers consider this a gray area)
- RF adaptor guy & Tennadyne will be there
- Prize / welcome table will be moved under awning in front of the church
- Dan will make contact with Ed Hude to see if there is an update on an ARRL representative attending the hamfest
- We need a replacement drum for tickets

MOTION: *Dan moved that we order a drum at \$50 or less for use at Hamfest/etc, seconded by Shawn, approved, and the motion carried.*

Lending CMARC Items:

- If things were to be rented out, we would need a damage deposit and a contract
- There was discussion about needing to get a liability waiver written up before anything is loaned out
- There was discussion about limiting the amount of items that CMARC loans. Further discussion is needed on this topic.

Printer for the Club Room:

- There has been discussion about having a printer for use at the club room location during contests, meetings, etc. The idea is not for a high volume printer (like what the club already has).
- John Hosford had one that was donated (all in one with USB laser)
- The idea would be to use it in the club room, as needed
- There are other printers we are looking at to compare with the the one we've been offered

Lock Box for the Club Keys:

- More research needs to be done before progressing

Conference Call System:

- There has been talk about different options for when Board members need to be absent for meetings
- Any systems above the quality of Skype or calling in via phone would cost a significant amount of money. Skype / traditional phone conference calls should be used when a member needs to miss a meeting but needs input.

The Use of Money Donated to CMARC:

- There has been discussion about money donated by members of CMARC for specific tasks. Looking toward a 501c3 status that we're hoping for, and also with our bylaws, money donated to the club cannot be earmarked. There was discussion about how to best reaffirm this need, especially looking forward to 501c3 status.
- There was talk to get this into the SCOPE newsletter
- There was further talk of making note of other changes that will happen at CMARC after prospectively gaining 501c3 status.

Proposed Changes to Life Membership:

- There has been discussion for allowing a member to be considered for life membership after large contributions to the club, with the deliberation of the Board
- Discussion has been tabled until next meeting with the thought that any changes should be reflected in the bylaws.

Needed Updates to the Bylaws:

- There is no specific text guiding the replacement of directors on the Board. Board of Directors may fill officers - need to fill directors. This has been noted as something to add to the Bylaws

Cards and Flowers Report:

- John Imeson's mom passed away last night (July 6, 2018)

APRS Test:

- A trial run will be held in August to evaluate the reception of APRS packets at the CMARC club room location
- There was discussion about using a J-pole vs a stacked $\frac{5}{8}$ wave antenna for the test as well as discussion of whether to run a test with the current 2m/70cm antenna and another where the APRS antenna would be installed to get more data

Adjournment:

MOTION: *With no further business to discuss, Michael moved that we adjourn the meeting, seconded by Clyde, approved, and the motion carried.*

The meeting was adjourned at 9:05 pm.

Respectfully submitted,

Daniel Beuchert (WX8MOJ)
CMARC Treasurer

CENTRAL MICHIGAN AMATEUR RADIO CLUB
MEETING MINUTES
July 13, 2018

Attendance

Board Members Present: Clyde Tompkins (K8CPT), Judy Crawford (K8JKC), Dan Beuchert (WX8MOJ), Chris Ranes (NS8Q), Shawn Crawford (WA8MXJ), Tom Rocheleau (WA8WPI), Michael Boensch (W8MKB)

Board Members Absent: None

General Members: 33 Members

Visitors: 5 Visitors (Diane Clay, Angel Suco and his friend Samuel, Duane Brown (KD8MRB), and Cheryl Davage (KD8QFE))

Call to Order

- Clyde (K8CPT) called the meeting to order at 7:08 pm.
- Dan (WX8MOJ) held the Flag for the Pledge of Allegiance.

Sign-in Sheets

- Please make sure to sign the sign-in sheets circulating around the room at each meeting. There is one sheet for members and another for visitors. We use these sheets to keep track of how many people visit us each month.

New Members / Visitors

- Diane Clay
- Angel Suco and Samuel
- Duane Brown (KD8MRB) - Visitor
- Jeff Flint (N4ZKS) - Visitor
- Cheryl Davage (KD8QFE) - Visitor
- Bill Thompson KE8KFA - New Member

Cards and Flowers Report

- Dan Dembinski (KD8YDE) was in a serious auto accident but will be ok.
- John Imeson N8JI's mother passed away recently.

Treasurer's Report

MOTION: *Don (KB8RAD) moved to accept the Treasurer's Report as published on the CMARC website, seconded by Kenny (K8NNY), approved, and the motion carried.*

- Remember to pay your dues for 2018. See our Treasurer, Dan (WX8MOJ) if you need a membership form and to pay with check or cash.

Secretary's Report

MOTION: *John (KD8NNQ) moved to accept the Secretary's Report as published on the CMARC website, seconded by Leota (KD8SQD), approved, and the motion carried.*

New Licenses and Upgrades

- Bill Thompson (KE8KFA) passed this Technician at Field Day.
- Kelly Fitzgerald changed her callsign to N9PC.

Interesting or other Contacts

- Venezuela, Puerto Rico, and Nicaragua on 10m. Louisiana and Texas on 6m with a homemade dipole.
- Mike worked Columbus, OH on 2m Simplex with Sporadic-E Skip
- Ben (WD8OVL) worked a clean sweep on 13 Colonies

State Parks on the Air

- Mspota.org for more information
- Two-thirds of the parks in Michigan are or have been activated.
- If anyone has interest in activating a park, especially a local park like Sleepy Hollow, contact Clyde (K8CPT) for more information. This is a great idea for those who may not have a General or Extra class license.

Old Business

- Field Day - Dan (WX8MOJ)
 - Networking glitch caused problems this year. We are going to try and catch Matt Miller (KD8OOS) for next years event.
 - 11 People worked the GOTA station, including the son of the Mason Police Chief. The Police Chief showed up on Sunday as well as a member of TV 10. We were also on TV 6 and TV47. Kenny (K8NNY) will try and find a contact at the Lansing State Journal for next year.
 - Preliminary contact counts are (4) 6M, (28) Digital, (213-226) SSB, and (690) CW.
 - Dan would like to begin a committee to deal with things such as antennas, station placement, and other things that will make the organization of the event much easier.
 - There is talk of using some items from the EOC which will speed up the process of installing antennas.
 - Gregg (WB8LZG) mentioned we worked a station from Morocco this year. We typically work one or two DX stations each year.
 - Gordy (KE8JKS) had his brand new signs posted by the park entrance.
 - We will look at creating a flyer for next year's Field Day.
 - Thank you to everyone who helped with all aspects, from setup, teardown, and who came out to help operate and log at each station.

- Any other old business?
 - Bob Strobel mentioned about the event at the Clinton County 4H Fair. He has not heard any response from those interested in setting up a station to demonstrate Ham Radio to the public. The date is Thursday, August 2nd, from 11:00 or 12:00 until 4:00 pm. We are not sure where we will be located onsite.
 - Woldumar Nature Center is another same similar event. That event will be the third Sunday in September.

New Business

- APRS Test
 - We plan to test our potential APRS setup in August with a date to be determined.
 - Gordy has donated a roll of LMR-400 Coax as well as a new dedicated antenna for the test.
 - John (KD8NNQ) and Tom (WA8WPI) installed a new mast pipe and coax for the APRS test. The new height to the top of the mast is around 45-feet. We are waiting for the new antenna for Gordy the new connectors can be installed, and we should be set outside the building.
- LCDRA Membership
 - We need more people to consider joining LCDRA.
 - The new 539 repeater will be located in Okemos on the WKAR tower, but LCDRA will need to pay for electricity. The more people who can join will help pay for all of those expenses. Membership forms can be found on the CMARC website and in the Scope.
 - Bob Strobel gave LCDRA a check for approximately \$170 from his Candy Bar sales.
- General Licensing Class
 - 9-week course running from September 29 to December 1st. Classes begin at 10am each Saturday and will be held at the Mason EMS Training Facility in Mason. There will not be a class held the Saturday after Thanksgiving.
 - The class will be based on the current ARRL General Class book.
- Hamfest
 - Ed (WA8QJE) mentioned that our new Michigan Section Manager will be sent to Europe for his job and Larry Camp will be taking over for him at this year's Hamfest.
 - The time to begin loading supplies will be on Friday night at 5pm. For those who work later, you are welcome to come when you can make it. The plan is to leave the club building at 6pm and head towards the church.
 - Clyde needs all the volunteers we can get.
 - Jeremy (KD8ZZJ) is coordinating volunteers and if you have not signed up already, and wish to help out, please contact him.
- 501(c)3 Update
 - We are currently waiting
- Any other new business?
 - Sam (N8FPR) won an ARRL scholarship and will be listed in the September QST magazine.

50/50 Raffle

- Duane Brown (KD8MRB) won \$11.50

Weekly Nets

- Wednesday Night Traders Net at 8pm on the 145.39 Repeater
 - We currently have two net control stations, but could use some more.
- Michigan VHF Traffic Net on the IRA Link System
- Thursday HF Net at 9pm on 28.495.
 - Bob (KB8DQQ) is acting as net control and is perfect for those Technician operators out there. It will help if all operators are running the same polarization on their antennas, making it easier to hear each other.
- Sunday SSTV net on the 145.39 at 8pm during the Summer
 - Carl (K8YHH) is net control. For those who need help in getting started in SSTV, contact Carl.
 - For those who build sound card interfaces during our class, this is the perfect net to use them.
- Tuesday Night QCWA Net on 146.700 at 8pm
 - This net is open to everyone, and not just members of the QCWA.
- WoFAA on Echolink

Adjournment

MOTION: *With no further business to discuss, Michael (W8MKB) moved that we adjourn the meeting, seconded by Don (KB8RAD), approved, and the motion carried.*

The meeting was adjourned and at 8:19 pm.

Refreshment Time

Presentation by John Imeson (N8JI) will be rescheduled

Respectfully submitted,



Chris Ranes (NS8Q)
CMARC Secretary

CENTRAL MICHIGAN AMATEUR RADIO CLUB
BOARD OF DIRECTORS
SPECIAL MEETING MINUTES

July 26, 2018

Attendance

Current Board Members Present: Clyde Tompkins (K8CPT), Chris Ranes (NS8Q), Dan Beuchert (WX8MOJ), Michael Boensch (W8MKB), Tom Rocheleau (WA8WPI)

Current Board Members Absent:

Guests: Kenny Hazlett (K8NNY), Shannon Ranes (WA2NVK)

Call to Order

President Clyde Tompkins (K8CPT) called the meeting to order at 8:15 pm.

Hamfest

- Shawn and Judy stepped down and Judy is no longer taking care of food. Clyde scheduled "Clint's Hot Dog Cart" from downtown Lansing to provide our food and we will be charged a \$40 setup fee. All previously purchased supplies will be returned for a refund if possible.
- The \$150 in cookies we purchased cannot be sold, but will be given to the volunteers as well as those at the August meeting. Cookies will be used in lieu of donuts and rolls for the morning crew.
- Gordy Smith is supplying a new PA system with a wireless microphone from Fulton's.
- Kenny (K8NNY) created flyers with an aerial image to be given out to the visitors.

Board Member Replacements

- We need to find replacements for Shawn and Judy who stepped down this week. Shawn held the one-year position (Under 22 Director), and Judy held a two-year position (Vice President). The individuals we choose will hold their positions for the remainder of the year, and will need to be voted in again at the December meeting.

MOTION: *Clyde moved that we shall vote at the September 8th Board meeting to fill both vacancies, seconded by Dan, approved, and the motion carried.*

Adjournment:

MOTION: *With no further business to discuss, Tom moved that we adjourn the meeting, seconded by Dan, approved, and the motion carried.*

The meeting was adjourned at 10:27 pm.

Respectfully submitted,



Chris Ranes (NS8Q)
CMARC Secretary

CENTRAL MICHIGAN AMATEUR RADIO CLUB
BOARD OF DIRECTORS
MEETING MINUTES

August 4, 2018

Attendance

Current Board Members Present: Clyde Tompkins (K8CPT), Chris Ranes (NS8Q), Tom Rocheleau (WA8WPI), Dan Beuchert (WX8MOJ), Michael Boensch (W8MKB)

Current Board Members Absent:

Guests: Gordy Smith (KE8JKS), Kenny Hazlett (K8NNY)

Call to Order

President Clyde Tompkins (K8CPT) called the meeting to order at 6:55 pm.

Possible Board Candidates

- A letter is being drafted that will be sent out to the ListServ and on Facebook describing the position the Board is in and calling for those interested in running for the Board. One of the positions will end at the end of the year, and one will run until the end of the 2019 calendar year. The Board will make a decision at the September 8th Board Meeting.
- The members who voiced their interest in running are:
 - Ed Hude (WA8QJE), Carl Canfield (K8YHH), Don McLain (KB8RAD), Gregg Mulder (WB8LZG), John Doornhaag (KD8NNQ), Kenny Hazlett (K8NNY), Gordy Smith (KE8JKS)
- Michael Boensch (W8MKB) volunteered to step up and fill the Vice President position for the remainder of the year.

MOTION: *Dan motioned that we make Michael, Vice President for the remainder of the year, seconded by Clyde, approved, and the motion carried.*

The Club PO Box

- Tom Rocheleau has the PO Box key in his possession. Dan is going to take care of filling out the Postal Service form required to transfer ownership of the PO Box from Judy to Tom.

Hamfest

- The supplies and unopened food items we did not use for Hamfest needs to be returned to Costco and Gordon Food before we miss out on the opportunity to recoup some of that money.
- The Board will look at whether or not the price of admission and for a selling spot is where it should be comparable to other clubs in the area, or if it needs to be adjusted either up or down.
- A sub-committee will be formed for next year's event, and the question on pricing will be tabled until the sub-committee has been formed. We would like to have it formed this year if at all possible to give the members ample opportunity to plan. One of the tasks to be delegated to

this committee will be to look at the possibility of accepting pre-registration money for spots and using PayPal to accept the fees.

August Potluck

- We have 50 hot dogs and 10 hamburgers to use. We will buy another case of hamburgers.
- Ice will be purchased to make sure we can keep the drinks cold.
- Gordy will purchase all condiments, including dill pickles, and a propane tank.
- Clyde will contact Dan Dembinski (KD8YDE) to see if he will be able to cook for the potluck.

APRS Test

- We plan to begin our APRS test on Saturday, August 25th. Setup will be the morning of and will run all day from noon until midnight on 144.390. Results will be shared at a future meeting. Notes will be sent out to surrounding clubs to make sure we can have as many operators as possible.
- This will be a “receive-only” test for those within a 25-mile radius out of our station in Mason.

General Meeting Agenda

- We plan to distribute the meeting agenda to the general membership before the meeting.

Email Addresses

- The Board has decided to give the Secretary and the Vice President access to the club email address to be used for Board purposes.
- The Board is discussing the possibility of creating specific email addresses for each of the Officers on the Board, to be transferred to new Officers each year.

Adjournment:

MOTION: *With no further business to discuss, Michael moved that we adjourn the meeting, seconded by Tom, approved, and the motion carried.*

The meeting was adjourned at 10:03 pm.

Respectfully submitted,



Chris Ranes (NS8Q)
CMARC Secretary

CENTRAL MICHIGAN AMATEUR RADIO CLUB

MEETING MINUTES

August 10, 2018

Attendance

Board Members Present: Michael Boensch (W8MKB), Chris Ranes (NS8Q), Tom Rocheleau (WA8WPI)
Board Members Absent: Clyde Tompkins (K8CPT), Dan Beuchert (WX8MOJ)
General Members: 22 Members
Visitors: 3 Visitors

Call to Order

- Michael (W8MKB) called the meeting to order at 7:04 pm.
- Tom (WA8WPI) held the Flag for the Pledge of Allegiance.

Sign-in Sheets

- Please make sure to sign the sign-in sheets circulating around the room at each meeting. There is one sheet for members and another for visitors. We use these sheets to keep track of how many people visit us each month.

New Members / Visitors

- Justin Macauley (KC8WGH) - a member of the Big Rapids club
- Chad Lycos (N8JFY) - former member from 30 years ago
- Charla-Fay Smith - wife of Gordy (KE8JKS)

Cards and Flowers Report

- A card was sent to Matthew Taylor (KD8JIA) during his hospital stay
- A card was sent to Pastor Dan Cameron (KD8QPF) after his surgery
- A card was sent to John Imeson (N8JI) after his mother passed away

Treasurer's Report

MOTION: *Don (KB8RAD) moved to accept the Treasurer's Report as published on the CMARC website, seconded by John (KE8CYC), approved, and the motion carried.*

- Remember to pay your dues for 2018. See our Treasurer, Dan (WX8MOJ) if you need a membership form and to pay with check or cash.

Secretary's Report

MOTION: *Jerry (KD8GLN) moved to accept the Secretary's Report as published on the CMARC website, seconded by John (KE8CYC), approved, and the motion carried.*

New Licenses and Upgrades: None

Interesting or other Contacts

- Bob Strobel had a Ham from Massachusetts check into the 10m net
- Ben Barker worked a station in China on FT8 and confirmed on LOTW

State Parks on the Air

- Mspota.org for more information
- Two-thirds of the parks in Michigan are or have been activated.
- If anyone has an interest in activating a park, especially a local park like Sleepy Hollow, contact Clyde (K8CPT) for more information. This is a great idea for those who may not have a General or Extra class license.

Old Business

- Hamfest
 - Thank you to all the volunteers who came out to make our Hamfest a huge success!

New Business

- APRS Test
 - August 25th from noon to midnight. We are welcoming any and all operators with equipment who would like to participate by driving or walking in and around a 25-mile radius around the club station. We are looking to see what kind of coverage we might have.
- General Licensing Class
 - 9-week course running from September 29 to December 1st. Classes run for two hours beginning at 10 am each Saturday and will be held at the Mason EMS Training Facility in Mason. There will not be a class held the Saturday after Thanksgiving.
 - The class will be based on the current ARRL General Class book.
 - There will be a special VE session held the day of the last class on December 1st for those who want to test.
 - Don McLain (KB8RAD) has two current ARRL General Class License manuals for those who may want to borrow them. Please let Don know if you are interested in purchasing a license manual through the club. The regular price is \$29.95 but we are able to purchase them at a discounted rate of \$25.
- 501(c)3 Update
 - We are currently waiting to hear from the IRS. As soon as we find out our acceptance status, Tom will publish it on the ListServ.
- Any other new business?
 - 517-249-7181 (John Hosford new personal cell number)
 - If you are interested in running for one of the two Board positions available, please let a Board member know. You can visit the leadership page on the CMARC website to send messages to any of the current Board members.
 - There is the remainder of one two-year position and one one-year position.

- The final decision will be made at the next Board meeting on September 8th. As always, the Board meetings are open to the public.
- The MSU 440-repeater is now linked to the GMARC (General Motors Amateur Radio Club) on top of the Renaissance Center in Detroit.

Adjournment

MOTION: *With no further business to discuss, John (KE8CYC) moved that we adjourn the meeting, seconded by Don (KB8RAD), approved, and the motion carried.*

The meeting was adjourned and at 7:39 pm.

6th Annual Club Picnic

Respectfully submitted,

A handwritten signature in black ink that reads "Chris Ranes". The script is cursive and fluid.

Chris Ranes (NS8Q)
CMARC Secretary

CLASSIFIEDS

Gregg Mulder / WB8LZG
(517) 646-6257 after 4pm

\$80

LDG AT-11 Auto Antenna Tuner

Covers HF 160m-10m and handles 150 watts.

\$40

Turner 251 Microphone

Oldie with the "fin" on top.

\$30

4 State QRP Digital Wattmeter and Dummy Load

Comes inside a homemade wood enclosure.

\$35

MFJ 422 Keyer

Keyer is made to sit on top of a Bencher key

\$100

Kent Single Lever Paddle

Key is in nice condition!

Ed Hude / WA8QJE
Cell: (517) 420-7550

\$180

Kenwood TS-120s.

Covers 80-10m, and comes with AC Power Supply, MC-50 hand mic, antenna tuner, and a copy of the manual. The rig is small in size and is in great condition.

\$500

Kenwood TS-850S.

Rig is in excellant condition with built in antenna tuner, matching AC power supply, external speaker, MC-50 Microphone, and operators manual.

\$275 Ea.

(2) Radio Shack PRO-652 Digital Desk Scanners.

Both scanners are programmed and unused in their original boxes.

\$275

Radio Shack PRO-651 Digital Handheld Scanner.

Scanner comes with AC adapter and is also unused, programmed, and in the original box.

\$300

Icom ID-880H

Covers 2m/440 - FM/D-Star. It is brand new with programming software and cable. Excellant condition!

Ed Oxe / W8EO
eaoyer@gmail.com

\$90 or Best Offer
Alinco DJ-V57T HT

Covers 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.

Jim Hannahs / KC8QWH
(517) 589-8346

\$275 Ea. or \$525 for the Pair
(2) Yaesu VX-7R Tri-Band HTs.

Each comes with the original microphone, case, charger, battery, manual, and original boxes. The radios are in excellant condition.

\$25

RT System Cable and Software Disk for programming the HTs.

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

Clyde Tompkins, K8CPT

Vice President

Michael Boensch, W8MKB

Treasurer

Dan Beuchert, WX8MOJ
wx8moj@arrrl.net

Secretary / Scope Editor

Chris Ranes, NS8Q
kc8caj@gmail.com
cmarcscope@gmail.com

Under 22 Director

Don McLain, (KB8RAD)

Director

Tom Rocheleau, WA8WPI

Director

Gregg Mulder, WB8LZG

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 DeFeyter, KC8CY
(517) 641-4533

Photographer

Kenneth Hazlett, N8BVV
(517) 348-5513

**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@arrrl.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

**LCDRA Call:
W8BCI**

The Scope is a bi-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.

36th Annual
Kalamazoo Ham-fest &
Amateur Radio Swap and Shop
Sunday, October 21, 2018

Kalamazoo County Expo Center and Fairgrounds
2900 Lake Street, Kalamazoo, MI 49048
GPS: N 42 16.674 W 085 32.585

Open 8AM to 12 PM Noon

Saturday Vendor Setup 3:00PM to 6PM & Sunday starting at 6AM

Sponsored by:

Kalamazoo Amateur Radio Club
Southwest Michigan Amateur Radio Team

- Talk-In 147.040 (PL 94.8) K8KZO Repeater
- Tickets: \$6.00
- Over 20,000 square feet of selling area
- We have HELP for vendors to load/unload
- Kalamazoo area Scouts will have an active JOTA site
- Scouts in uniform admitted free
- Free Truck Sales Spaces available (admission ticket required)
- Featuring the Kalamazoo Makers Guild
- Door Prizes
- Test Bench
- Forums
- Amateur Radio License Testing at 10AM
- Campsites available with electric and water (see <http://www.kalcounty.com/parks/activities.htm>)

For more information see our web-site at: <http://KalamazooHamFest.com> or
Email us at: info@KalamazooHamfest.com or call us at (269) 205-3560 and leave a message.

Name/Company_____ Call Sign_____

Address_____

City_____ State_____ Zip_____

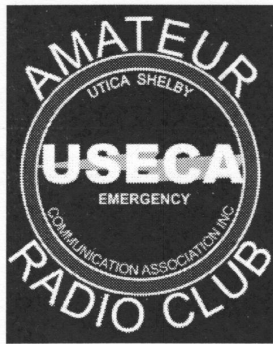
Phone () _____ Email_____

____ Hamfest Tickets @ \$6.00 each
____ Tables 8 foot @ \$12.00 each
____ Tables with power @ \$22.00 each
____ Send information about Sat. setup

To order send check with this order
form and SASE to:
Kalamazoo Ham-fest
PO Box 19523
Kalamazoo, MI 49009-0523

\$_____ Total Amount enclosed

Orders received after Sept 30, 2018 will be held for pickup at the door!



U.S.E.C.A. Hamfest 2018

Sunday, October 28, 2018

8:00 AM - 1:00 PM

Vendors may set up at 6:30 AM

Talk-in on K8UO Repeater 147.180+ 100 Hz CTCSS

United Food & Commercial Workers Local 876 Hall

876 Horace Brown Drive Madison Heights, MI 48071

(2 blocks south of 13 Mile Road, between Stephenson Highway & John R Road)

Questions? Ask our Swap Chairman:

Gary Simms, KI8M, email: ki8m@arrl.net 586-322-2134

New & Used Sales, Radio test bench, VE test session *

DXCC card check available (Forms need to be filled out in advance. All bands & awards except 160m)

Great Door Prizes, food and Radio Raffle!

Swap admission is \$5.00 (Children under 12 are free) and each table is \$15.00
Tables should be purchased in advance. Limited tables may be available day of swap.

*Note: VE testing is between 9-10 AM. Bring \$14.00 cash, photocopies of existing licenses to CSCEs. Originals not accepted. Two pieces of ID are also required, one of which must have a photo. You must also provide either your Social Security number or FRN. Pre-registration is preferred, but not required. Contact Alec, NF8X, nf8x@arrl.net.

VENDORS! DO NOT ATTACH ANYTHING TO THE WALLS!!

Name _____ Call _____

Email _____ Phone # _____

Address _____

City _____ State _____ Zip _____

of Tables _____ # of Admission Tickets _____

Total Enclosed \$ _____

Special Requests _____

Checks for table reservations & admission tickets should be made payable to:
USECA PO Box 46331 Mt. Clemens, MI 48046



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').

Daniel Beuchert | PO Box 27275 | Lansing, MI 48909-7275

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

**If you would like a membership card mailed to you,
please include an SASE with your payment. Thank you.**

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 Membership Card <input type="checkbox"/> Yes (Please see above)		

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
P.O. Box 54
Mason, MI 48854-0054

STAMP

To:

Activities Calendar



Date	Time	Event	Place
8/2/2018	7:00 PM	VE Session	Lansing Fire Station #44
8/4/2018	6:30 PM	CMARC Board Meeting	The Club Station in Mason
8/10/2018	7:00 PM	CMARC Meeting	The Club Station in Mason
9/8/2018	11:00 AM	VE Session	Lansing Fire Station #44
9/8/2018	6:30 PM	CMARC Board Meeting	The Club Station in Mason
9/14/2018	7:00 PM	CMARC Meeting	The Club Station in Mason
9/29/2018	10:00 AM	General Licensing Class #1	The Club Station in Mason
10/4/2018	7:00 PM	VE Session	Lansing Fire Station #44
10/6/2018	10:00 AM	General Licensing Class #2	The Club Station in Mason
10/6/2018	6:30 PM	CMARC Board Meeting	The Club Station in Mason
10/12/2018	7:00 PM	CMARC Meeting	The Club Station in Mason
10/13/2018	10:00 AM	General Licensing Class #3	The Club Station in Mason
10/20/2018	10:00 AM	General Licensing Class #4	The Club Station in Mason
10/27/2018	10:00 AM	General Licensing Class #5	The Club Station in Mason
11/3/2018	10:00 AM	General Licensing Class #6	The Club Station in Mason
11/3/2018	6:30 PM	CMARC Board Meeting	The Club Station in Mason
11/9/2018	7:00 PM	CMARC Meeting	The Club Station in Mason
11/10/2018	10:00 AM	General Licensing Class #7	The Club Station in Mason
11/10/2018	11:00 AM	VE Session	Lansing Fire Station #44
11/17/2018	10:00 AM	General Licensing Class #8	The Club Station in Mason
12/1/2018	10:00 AM	General Licensing Class #9	The Club Station in Mason
12/6/2018	7:00 PM	VE Session	Lansing Fire Station #44
12/8/2018	6:30 PM	CMARC Board Meeting	The Club Station in Mason
12/14/2018	7:00 PM	Annual CMARC Christmas Party	The Club Station in Mason