



The Scope

Central Michigan Amateur Radio Club Lansing Civil Defense Repeater Association

August 2017
Volume 17
Issue 8

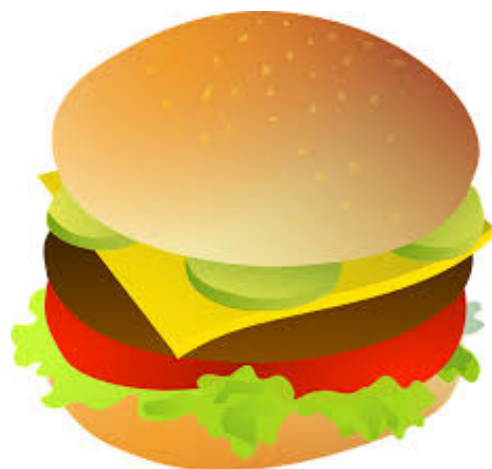
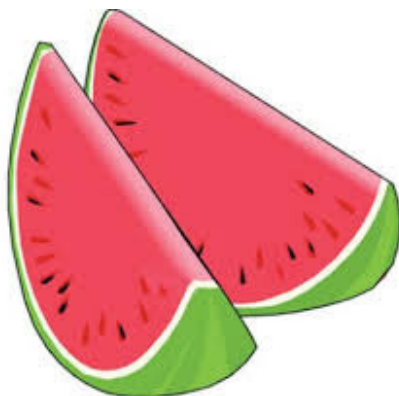
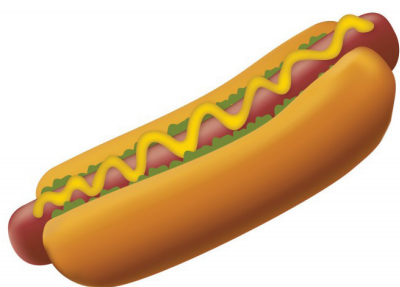
CMARC Annual Summer Indoor Picnic

CMARC will be providing the hot dogs and hamburgers (with all the fixings) along with drinks. Everyone else is asked to bring all the things that make for a good Summer picnic, like potato salad, baked beans, watermelon, etc. And don't forget all the yummy desserts too!

When: CMARC Monthly Meeting
7:00 pm, Friday, August 11, 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@arrl.net.



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August Birthdays:

8/1 Charles Stahl / N8DWI
8/2 Dan Cameron / KD8QBF
8/3 Joe Denomme / N8VYS
8/3 Joel Zachrich / N0KEX
8/7 Jeremy Kapella / KD8ZZJ
8/8 John Tyree / KD6KCX
8/9 Dan Stockwell / KD8YVA
8/11 Debbie Headley / KD8YUX
8/12 John Seaver / N8SUA
8/14 Sam Fitzgerald / N8FPR
8/17 John Strong / AC8ML
8/21 Dave Hayhurts / K8QH
8/27 Chris Ranes / NS8Q
8/27 Matt Beha / N8BPI

August Anniversaries:

8/7 Ben Barker / WD8OVL
8/7 Russ / N8FZ and Kelly / K9FTZ Fitzgerald
8/10 Bill Wing / W2PMH
8/12 Chris / NS8Q and Shannon / WA2NVK Ranes
8/14 John / KC8QZB and Jane / KC8FSK Hosford
8/22 Dan Fuller / W8VVR and Barb
8/24 Scott Norris / KD8ZFS
8/26 Don Tillitson / WB8NUS and Mary Lou
8/31 Matt McCormick / KE8CRV
8/31 Ray Jenk / KD8ZDX and Geraldine

Upcoming Meetings:

ARPSC

The ARPSC meeting for the month of June is at 7:00pm on Monday, [August 21st](#). 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.lansingarpsc.com

Treasurer's Report 2017

John Doornhaag / KD8NNQ - CMARC Treasurer

Bank Balances for July	
Beginning Balance	\$2,924.77
Total Monthly Income	\$273.00
Total Monthly Expenditures	(\$302.45)
Total Business Checking	\$2,895.32
Petty Cash	\$1.00
Sub Total	\$2,896.32
Primary Share Accounts	
Humphrey's Fund	\$1,093.99
Building Fund (Club Station)	\$19.09
Field Day	\$530.67
Total Net Worth	\$4,540.07
Youth Fund Balance*	\$254.06
* 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.

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.

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.

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

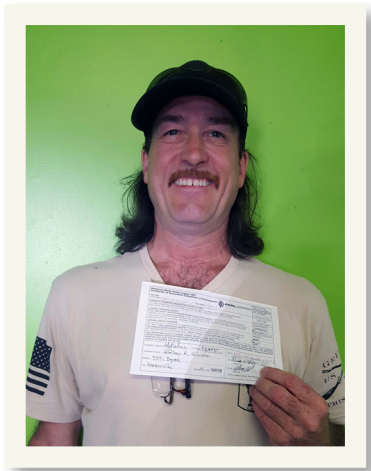
All sessions begin at 12:00 PM and walk-ins are allowed.

October 14, and December 9

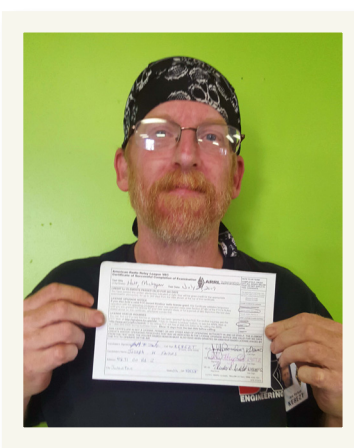
Thank you to all who had a part in the July CMARC Outdoor Hamfest! We appreciate all the time and energy each of you gave to make this year's Hamfest a success. The final financial report will be in an upcoming issue of the Scope.

Congratulations to our Successful July Exam Candidates!!

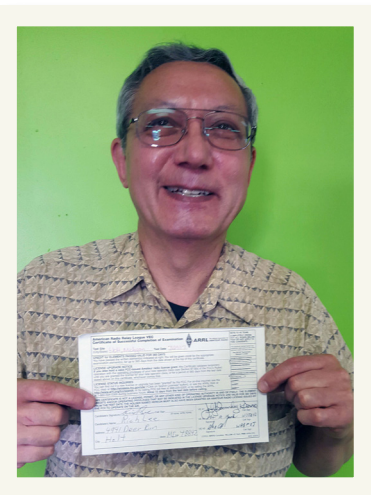
Jeff Gilmore/KE8FDT from Greenville passed his Extra .



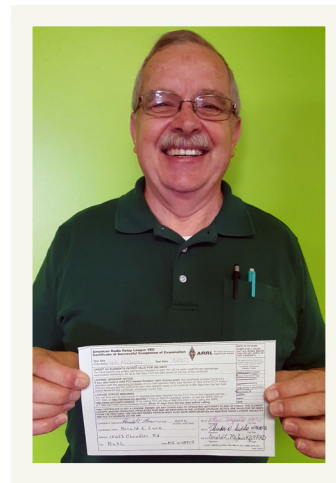
Joe Farkas/KE8EYT from Swanton, OH passed his General.



Rich Lee from Holt passed his Technician.



Ron Luce from Bath passed his Technician.



A Pictorial Review of the 2017 Outdoor Hamfest



PHOTO: JOHN HOSFORD/KC8QZB

Ham researcher to investigate effects of solar eclipse

By Dan Romanchik, KB6NU

Dan Romanchik, KB6NU, blogs about amateur radio at KB6NU.Com, and is the author of the "No Nonsense" amateur radio license study guides and the CW Geek's Guide to Having Fun With Morse Code." You can reach him by emailing cwgeek@kb6nu.com.



August 21 is a once-in-a-lifetime opportunity for many in the U.S. to see a total eclipse. It's also an opportunity for a team of Virginia Tech researchers to study the effects of the eclipse on changes in the upper atmosphere that have an impact

on HF propagation and the global positioning system (GPS). Backed by research funding from NASA and the National Science Foundation, the team is headed by Dr. Greg Earle, W4GDE.

The Virginia Tech team plans to gather data from a variety of sources, including radar systems, transceivers, satellites, ham radio, and GPS receivers, in order to analyze the effects of the solar eclipse on the conductive region of the atmosphere.

"Whether military radar, or consumer GPS signals, the eclipse is going to have effects on the medium that we would like to understand better, so that we can either mitigate them or use them to our advantage," said Earle.

Here are a couple of links to news stories on the research team and the experiments:

- * Virginia Tech team prepares for special project during total solar eclipse (<http://wset.com/news/local/virginia-tech-team-prepares-for-special-project-during-total-solar-eclipse>)

- * Virginia Tech expert to study August solar eclipse effects on radar, ham radio, GPS (<http://wtkr.com/2017/07/17/virginia-tech-expert-to-study-august-solar-eclipse-effects-on-radar-ham-radio-gps/>)

Let's party!

In conjunction with the eclipse, the HamSCI and the ARRL are sponsoring the Solar Eclipse QSO Party (<http://www.hamsci.org/seqp>). (SEQP). According to an article in the August 2017 issue of QST, the goal of the SEQP is to "flood the airwaves with contacts, all measured by the automated receiver networks of the Reverse Beacon Network, PSKReporter, and WSPRNet." Once all the logs are in, researchers will analyze the data to see what effect the eclipse had on radio propagation.

A YouTube video of a presentation at Dayton on the SEQP can be found at <https://youtu.be/3EviY2Cuxpo?list=PLihPo8xWmo8-xDYAtpP9BWx9QnhUoT7k4>

The SEQP will run from 1400Z - 2200Z on Monday, August 21. This is well before the eclipse is due to begin on the West Coast. The reason it starts before the eclipse is to establish a baseline for radio propagation conditions.

SEQP organizers urge you to make as many contacts as you can on as many bands as you can operate. Like nearly every contest, contacts are not allowed on 60m, 30m, 17m, and 12m. CW, RTTY, and PSK31 are the preferred modes because automated receivers can record those contacts, but phone and other digital modes count, too.

An interesting twist to this contest is that, like Field Day, you can earn a number of bonus points, including:

- * Operating outdoors (100 points)
- * Operating in a public place (100 points)
- * Operating a wide-band automated receiver at your station (100 points)

Hams have had a long history of supporting scientific research. They provided communications for some of the early polar explorations and listened for Sputnik as it flew overhead. The Solar Eclipse QSO Party continues this tradition, and it's going to be a lot of fun as well. Visit the HamSCI website (<http://www.hamsci.org/seqp>) for more information. ■

Out on the Lone Prairie

By Gregg Mulder / WB8LZG



With barely enough time to unpack the pickup truck from Field Day, the XYL and I were off to Minot, North Dakota for another visit with harmonics on 4th of July weekend. My son Jordon and his Canadian fiancé Ali, had us over to visit and meet her parents. Meeting new people is always interest-

ing, but when they're going to be your In-Laws, it's a bit different. Apprehension soon gave way to relaxation after we met, and found out we have much in common.

For Vicki and I, it was fun just getting used to the "cultural differences" and also similarities. We went out to eat a lot, and drank plenty of cold craft beer, and had a great time together.

Ok, Ok so what's this got to do with Ham Radio you say??

Well, a couple of years ago I was in N.D. for CW Sweepstakes on a mini Expedition. (read OCT 2015 and Nov 2015 issues of SCOPE) I left a transceiver a few dipoles in a box for the "next time." Well one afternoon when the rest were catching up on their "siesta's, I took out the fishing pole and threw a line up in the trees to hoist up an antenna. My first cast was right on the money, and I soon had the 20m dipole up about 35 feet in the air. I quickly set up the rig in the spare bedroom (shack) and made several QSO's before having to go QRT for the night. The next morning I was up early and checked out the bands to my first cup o' joe. As luck would have it, I

hear a CQ, and it sounds close. Sure enough, I recognize the call, N7IV, Joe, right here in Minot! I had a OSO with him last time in town, so I was excited to chew the fat again. Joe has a VERY nice contest style antenna farm, and I've been envious ever since I first laid eyes on it. Well, it just so happens the "local gang" was getting together at the Hardy's for their weekly get together later in the morning, and could I come? Well, I ran it by the XYL and got her blessing and was soon on my way to meet the Souris Valley ARC gang! The kids went shopping and would pick me up in a few hours. Always fun to have an "eyeball" QSO. We all had lots of fun comparing notes on rigs, antennas, 8-land propagation vs. 0-land, and many other tall stories too! I even found out that Joe is a professor at the college in Minot, and that Ali was one of his students! Small world indeed ! Very similar bunch there, sorta like our own Rad's coffee break. They were very nice and made me feel right at home. Alas, all too soon my time was up, and I said my farewells to the group. Well, it just goes to show, that with Ham Radio, you're never far away from a friend. The next morning after coffee and a QSO, I wound up the dipole and put it all away until next time. I'm secretly hoping to come back and "play Sweeps" someday from Joe's super station location! Ali's parents were heading out for home and soon so were Vicki and I. We all said our goodbyes and hugged. We boarded the plane back home on the 4th of July, and were treated to a FB fireworks show across the whole west coast of Michigan that night as we made our evening descent into Lansing. Great way to top off a great trip. ■

73, Gregg WB8LZG

The DX Corner

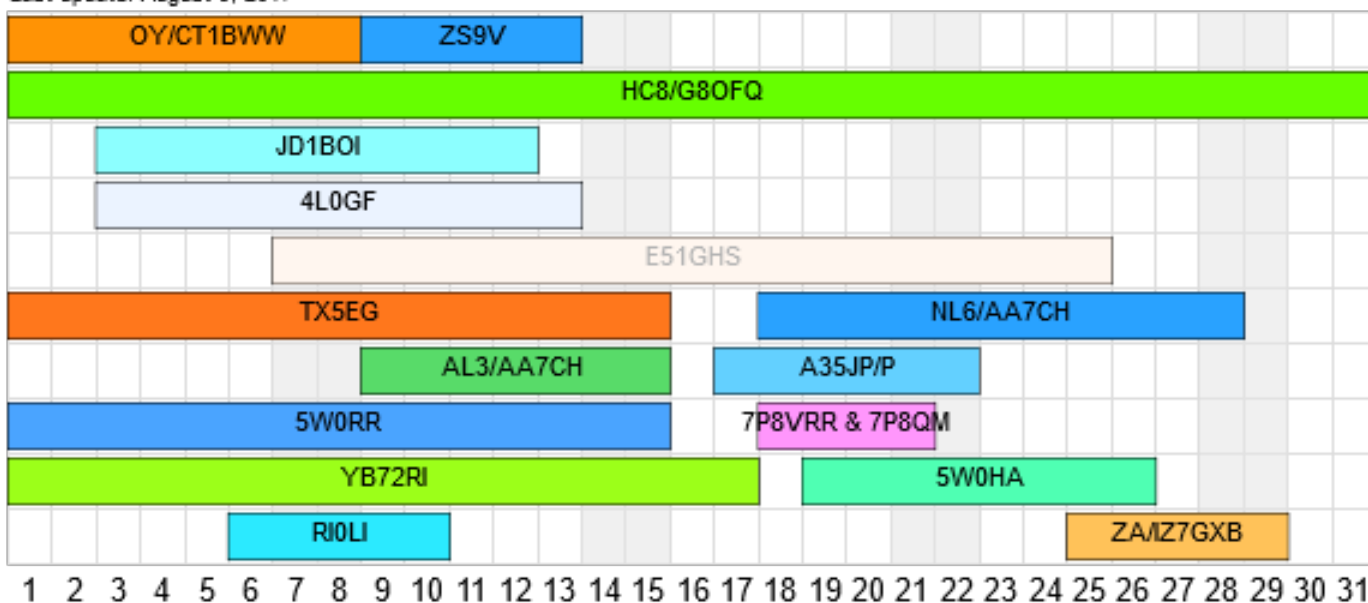
By Col McGowan, MM0NDX

The images and articles about current and/or upcoming DX operations are published here with permission by Col McGowan/MM0NDX as made available on www.dx-world.net.

Images for the QSL cards are published with permission from Tom Roscoe/K8CX and the QSL Card Museum at www.hamgallery.com/qsl.

DX WORLD.net FEATURED DXPEDITIONS TIMELINE

Last update: August 5, 2017



Edited by MM0NDX

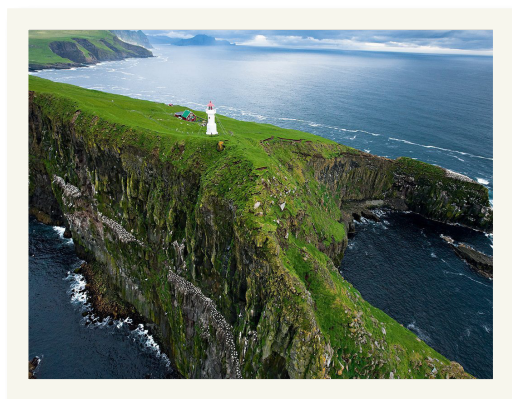
AUGUST

© IK8LOV Max Laconca

Current & Upcoming DXpeditions

OY/CT1BWW - Faroe Islands *DX Europe*

Marq / CT1BWW will be active from the Faroe Islands between August 1-10, 2017. He will be operating CW, SSB, and Digital on 40-10m.



Current & Upcoming DXpeditions

ZS9V - Robben Island, AF-064 *IOTA News*

A team consisting Paul (ZS1V), Jan (ZS1VDV), Andre (ZS1AN), Johan (ZS1A), Pierre (ZS6A) and Oleg (ZS1ANF) will be operating as ZS9V from Robben Island (IOTA group AF-064) during August 19-20, 2017. In addition to the stations they had last year (SSB on 10/15/20 and SSB on 40/80) they will also have a CW station operating on the high bands. Further information on the operation will be published on zs9v.org.za as it becomes available.



E51GHS - Cook Islands *DX Oceania*

Alex, F4GHS will be active from the Cook Islands as E51GHS between August 7-25, 2017. Between August 7-16 he will operate from Aitutaki and between August 16-25 from Rarotonga. He plans to operate holiday style using a home-made vertical (20m) and an Electcraft K3. QSL via home call.



NL6/AA7CH - Kayak Island, NA-157 *IOTA News*

Mike, VE7ACN will be active from Kayak Island NA-157 as NL6/AA7CH between August 18-28, 2017. QRV on 160-10m CW & SSB. QSL via home call, LoTW.



CMARC Board Meeting Minutes

July 8, 2017

1) Call to Order:

- a) Club Vice President Russ Fitzgerald/N8FZ called the meeting to order at 5:40 pm.

2) Discussions:

- a) Ted Sadilek/WA8MFQ discovered that both of the club callsigns (W8MAA and W8PLP) are set to expire in November. The Board will figure out who needs to renew them, either someone on the Board or the Trustee who was assigned the individual callsigns. Russ Fitzgerald/N8FZ we need to change or update who the Trustee(s) will be, either the President or the Secretary.
- b) Russ Fitzgerald/N8FZ gave a brief recap of this year's Field Day. He mentioned Clyde Tompkins/K8CPT ran the GOTA station this year and made about 15 contacts with the youngest person about 7 years old. He said there were about half as many people there for the picnic this year compared to last year. We need to find a way to promote the picnic much more than we had done this year. He said we should not worry so much about making contacts, but to welcome in new people who may stop into visit each station location.
- c) Russ Fitzgerald/N8FZ discussed the upcoming club meetings. He said in order to make our meetings happen we will need help. There are many members who are very talented in different areas of Ham Radio. He would like to identify those who are "experts" in their fields, and ask to come in and give a presentation. It may also be beneficial to our membership if we had a list of designated Elmers who other members could call if they need help in a specific area. He will present this idea to the membership at the August meeting to see if there is any interest.
- d) Sam Fitzgerald/N8FPR discussed some upcoming events that he is excited about and needs our help with. He has recently been put in charge of planning camping and other events for the Boy Scouts. He is looking for ideas for upcoming scouting events. One idea he did have was to use one of our club meetings as a time and place for Scouts to come and get their radio merit badges. He needs a person who is certified in teaching the class to run the meeting. Another idea he had was to conduct a CW crash course, of course he will need someone to put that on as well. His whole goal is to start simple and work up to larger things as he becomes more comfortable.
 - i) He also discussed he would like to begin with the Radio Merit Badge Blitz. Depending on how much interest he receives from this event, will determine what other events we do in the future. Radio Merit Badges are a great way to get Scouts to come out because many of them are looking to get as many badges as possible.
 - ii) If someone is interested in helping conduct a presentation, please feel free to see him at a meeting or send him an email. There is a very small window of opportunity to hold meetings or events.
- e) Russ Fitzgerald/N8FZ shared some concerns he has with our new location. If we continue to have large attendance to our meetings, like we had last month, we will quickly run out of space. He would like to Board to consider the possibility of removing the tables for the meeting, and set up rows of chairs. Parking will also become an issue with the more people we have. He asked if we could park along the long driveway at the welding business across the street. He also mentioned he has gathered all the license plates we have given him so far, and wants to begin building a template.
- f) Clyde Tompkins/K8CPT gave an update on Hamfest. He said we are currently set for volunteers but still need someone to head up the food. Dan Dymbinski will not be able to be there this year due to health reasons and will not be supplying us with the pulled pork that he has in previous years. Because of this we are going to have Burgers, Brats, and Hot Dogs. It will be nice to have a windbreak that the cooks

can place around the grills to help cut down on the wind that blows through. Joe Urdzella, John Tyree, Sharon Waite, and Mark Lovegrove volunteered to run everything related to food.

- i) We need someone to create signs for the food and bathrooms. Clyde is looking for something a little bit larger than we had last year. He will mention it at the club meeting to see if someone can handle that.
- ii) As far as parking is concerned, we need to make sure we have handicap parking spots available. The volunteers who are working parking need to make sure we charge \$5 for a table this year.
- iii) We need someone who has a drone and who is willing to take an aerial shot of the hamfest site after everything has been set up to see where the canopies are set up. The idea is to redo the laminated map that the parking attendants use to direct vendors to their spots.
- iv) Joe Urdzella is going to handle any talk-ins that we may receive on the repeater. Last year we had just a few who called in.
- v) Mike Holcomb is going to bring the PA system this year.
- vi) Last year, it was brought to our attention that a couple of people had cut themselves on our ticket drum. We decided that we needed to either replace the drum or fix the front face where people drop their tickets in with some kind of screen. Pete Strank/KC8TCS took the drum and will fix it for us.
- vii) This years tickets will be the same colors as last year – green for the vendors and yellow for general admission. Clyde will be filling out vendor tickets the night before for those vendors who have pre-registered.
- viii) Ted Sadilek/WA8MFQ secured the callsign K8H to be used for the Special Event Station. Michael Boensch/W8MKB and Brian Wellwood/KD8ONC will be running the station.
 - (1) They plan to use a 90-ft antenna from Tennadyne on all HF bands.
- ix) Clyde would like to meet with everyone at 7pm the night before the hamfest to go over any last minute issues.
- x) Pete Strank/KC8TCS will allow us to use a couple of coffee carafs to hold the coffee and keep it hot throughout the event.
- xi) For prizes we have three radios (UV-5X3 Tribander, TYT-MD380 (Donated by Ham Radio 2.0), and a Yaesu FT-70DR.
 - (1) Other prizes are a couple antennas from MFJ, ARRL Gift Certificates (2-\$50 and 2-\$25), DX Engineering Gift Certificate (\$50), and 2-shirts from Ham Radio 2.0.
- xii) Clyde needs 200 more vendor tickets printed. Chris Ranes/NS8Q will order another set from Office Depot.

3) Motions:

- a) Russ Fitzgerald/N8FZ made a motion that we give Chris Ranes/NS8Q the green light to proceed with the tour project with a funding cap of \$600 for now.
 - i) Clyde Tompkins/K8CPT seconded the motion and the motion passes.

4) Adjournment:

There being no further business, the meeting was adjourned at 8:30 pm.

Respectfully submitted by,



Chris Ranes - Secretary

CMARC Meeting Minutes

July 14, 2017

1) CALL TO ORDER:

- a) Club President Tom Rocheleau/WA8WPI called the meeting to order at 7:08 pm.
- b) Sam Fitzgerald/N8FPR held the flag for the Pledge of Allegiance.

2) ATTENDANCE:

- a) 27 Members and 3 Visitors (Judy Brewer, Mary Tillitson, Eric Woodard/KE8IGK, and Tim Schuchaskie/KE8HIY).

3) NEW LICENSES AND UPGRADES: None

4) DX CONTACTS:

- a) John Winn/KE8CYC has been chasing Summits on the Air. He just received his 1,000th point and won a gift certificate, which he used to purchase a nice glass paperweight.
- b) Chris Ranes/NS8Q made contact with Moldova, Spain, Greece, Turkey, Guatemala, and French Polynesia.

5) APPROVAL OF REPORTS:

- a) Due to unexpected computer hardware failure, we will postpone the approval of the Treasurer's and Secretary's Reports until next month.

6) FIELD DAY REPORT (Ron Harger/WD8BCS):

- a) The total amount of contacts this year were up for all stations. Both the CW and SSB stations had about 100 more contacts than what we had last year. We have 30 days until we have to have our log turned in. Ron will put together a spreadsheet showing the trends over the last ten years or so.
- b) Clyde Tompkins/K8CPT mentioned we made about fifteen contacts at the GOTA (Get On The Air) Station. Several people stopped by to operate the station, including a 7-year-old, who was the Grandson of Ken Faiver/W8HNI.
- c) Among those who operated were Dan and Dawn Beuchert's Daughter Abbey, as well as Dan Ruger's Daughter Reanna. Both girls had a really good time and are looking forward to next year's event.

7) CARDS & FLOWERS REPORT:

- a) Cards were sent to Leota Strobel/KD8SQD and Dan Dembinski/KD8YDE.

8) HAMFEST UPDATE (Clyde Tompkins/K8CPT):

- a) Yaesu will officially be at this year's event and will be located inside the church building. They plan to put on three or four demonstrations during the Hamfest – showing off their Fusion line as well as some of their repeaters. The radio equipment they plan to bring will take up an entire 8-foot table.
- b) The official start time is 8 am, but all workers need to be there much earlier. Clyde wants to get together the night before at 7 pm to go over any last-minute details.
- c) For those of you who plan to load trailers, please be at the meet at the club room at 6 pm. All others who do not plan to load trailers can meet at the Hamfest site at 7 pm.
- d) Marc Lovegrove/KE8GQX said he would bring reflective vests for our volunteers to wear. CMARC owns some of their own, but the more we can get, the better.
- e) Tennadyne Antennas plans to be there as a vendor and is bringing an antenna for us to use at the Special Event Station (K8H).
- f) We are planning on several different prizes this year. There will be three different radios (UV-5X3 tribander, TYT-MD380 (Donated by Ham Radio 2.0), and a Yaesu FT-70DR. Other prizes are a couple of antennas from MFJ, ARRL Gift Certificates (2-\$50 and 2-\$25), DX Engineering Gift Certificate (\$50), and two shirts from Ham Radio 2.0.

- g) Dan Dembinski/KD8YDE will not be attending this year and bringing his pulled pork. This year we will have hamburgers, all-beef hot dogs, and brats.
- h) Tickets colors will remain the same as last year – green for Vendors and yellow for the Public. All workers will get in free but will have to pay \$5 if they want to enter the raffle. All kids under 15 will get in free. They too will have to pay \$5 if they want to enter the raffle.
- i) If there are more vendors than spaces available in the parking lot – the church gave us permission to move them back into the back yard.
- j) For all parking personnel – if vendors need an extra table, the church has five or six tables they said we could use to rent out. We just need to make sure they are returned at the end of the event.
- k) We ask that all volunteers stay to help tear down, clean the restrooms and kitchen area, and take care of anything else that needs to be done. The more people we have, the quicker we can get out of there. In the past, the church leadership has always complimented us on how well we leave the building and the grounds when we are finished.
- l) All club members should park at the very back of the property along the tree line. Parking was limited last year for our guests and visitors.
- m) Michael Boensch/W8MKB has volunteered to make the Food and Restroom signs for us. We are looking for someone to build larger signs that we can place around the area to point the public to the Hamfest location.
- n) Pete Strank/KC8TCS asked his Dad to fix our ticket drum. Last year there were a couple of people who had cut themselves when dropping their ticket stubs inside.
- o) Kenny Hazlett/K8NNY will be the MC for the event. He is looking for a volunteer to help him out. Pete/KC8TCS volunteered to help.
- p) Larry Camp/WB8R will be there to represent the ARRL. Look for him by the announcer's booth.
- q) The site-wide simplex frequency for all workers is 146.520.
- r) All workers need to be full members for insurance reasons.
- s) Terry Lawson, the instructor for Speedway Gas Stations, will be with us to keep us legal with our Safe Server Food Licensing requirements.

9) TOWER PROJECT UPDATE (Tom Rocheleau/WA8WPI):

- a) Ed Hude/WA8QJE called today and said the City of Mason has officially given us the approval to install our tower on the back side of our new building on Kerns Rd. The City stressed that they do not want any liability placed on them if the tower were to fall on MDOT property (the on-ramp to northbound 127) behind the large berm.

10) MICHIGAN STATE PARKS ON THE AIR:

- a) John Winn/KE8CYC has volunteered to organize any potential operations that CMARC is interested in conducting.
- b) He is checking into what it would take for us to sponsor Sleepy Hollow State Park.
- c) The State of Michigan will give us 500 QSL cards as well as the logs of those who made contacts with that particular park. We will need volunteers to stuff envelopes with the QSL card as well as other information provided by the State describing all about the State Park system.
- d) Sleepy Hollow State Park is only available for one year.
- e) Ropes or wire antennas are NOT allowed in the trees and are a ticket-able offense. The State is concerned about invasive species and damage to sensitive vegetation.

11) LABOR DAY PUBLIC SERVICE EVENT (John Tyree/KD8KCS):

- a) John is looking for volunteers to help with the Race for CHUMM event again this year. It is located in Dansville and begins at 7 am. Further details will be available in a future Scope or by contacting John directly.

12) 501(c)3 UPDATE:

- a) The paperwork still has to be filed. We hope to have that done soon.

13) YOUTH DIRECTOR UPDATE (Sam Fitzgerald/N8FPR):

- a) In October, he would like to give a presentation about some ideas he has to get more youth involved in Ham Radio.
- b) Please see the Board Meeting minutes earlier in this issue for further details.
- c) Carl Woodard/KE8FQO said he would be willing to pay for a Boy Scout to get his Technician license through HamTestOnline. His brother Eric Woodard/KE8IGK said he would also match. Carl said he would do this if someone else would match his donation.
- d) ***Bob Crawford/K8ZAP made a motion that the club buys two HamTestOnline Technician classes at \$25 each. Shawn Crawford/WA8MXJ seconded the motion, and the motion passes.***
- e) There will be a total of four individuals who will benefit from this, but we will have to tell Carl and Eric who will get the benefits.

14) POSSIBLE CHANGE IN MEETING TIME:

- a) A member asked the Board to consider moving the meetings to a later time due to the longer distance to drive. The Board decided to conduct an online survey (thanks to Dan Beuchert/WX8MOJ) for putting that together.
- b) The options on the survey were 6:30 pm, 7:00 pm, 7:30 pm, or other.
- c) The survey results have been tabulated and will be made available soon.
- d) ***John Doornhaag/KD8NNQ made a motion that we vote for a potential meeting time tonight. Kelly Fitzgerald/K9FTZ seconded the motion and the motion passes.***
- e) The majority of those polled voiced their opinion that the meeting time should remain at 7 pm.

There being no further business, the meeting adjourned at 8:45 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

NEW \$800

Complete Yaesu HF station in nice condition. FT-990 Transceiver with CW filter, sharp digital filter, built-in AC power supply, built-in tuner (wide range), built-in keyer, CAT interface, SP8 matching speaker with Timewave599 DSP built-in, hand mic, and the manuals.

NEW \$700
FT-990 Transceiver only

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.

Ed Hude / WA8QJE
WA8QJE@arri.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"

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.

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.

Jason McLaughlin / KC8RBL
(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

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

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, KC8BFK
(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 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.

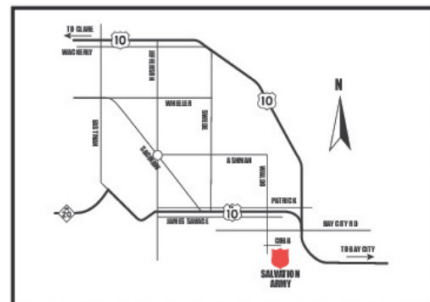
Midland Amateur Radio Club Midland Hamfest '17



August 12, 2017
Salvation Army Building
330 Waldo Ave.
Midland, Mi

Set-Up at 6:30 AM
Show Runs 8:00 AM - Noon

Admission \$5.00
Tables \$5.00
Trunk Sales \$5.00



Featuring:
FCC Exam
New & Used Amateur Radio Equipment
Parts, Coax & Connectors
Large Selection of Vacuum Tubes
Seminars/Demos
Refreshments



An ARRL
Sanctioned
Hamfest

Talk-in: 147.00 MHz – Midland Repeater
For More Information & Reservations Mail
MARC Hamfest, PO Box 1049, Midland, MI 48642
or Contact
Keith Johnson, KB8SOE at (989) 488-4337 email: KB8SOE@arrl.net

Seaway Trunk Swap

August 13, 2017

8:00 A.M. to Noon

Presented by:

The Eastern Michigan Amateur Radio Club

Vantage Point

Great Lakes Maritime Center in Port Huron

51 Water Street,

Downtown at the foot of Court Street where the Black River
joins the Saint Clair River

Free Admission & Free Parking

Trunk Sales Only

Refreshments available at the Waterfront Deli



Talk In 146.800, 100 Hz P.L.

Admission - Free

Trunk Space - Free

ARRL DXCC Card Checker available (no 160M)

Information email Bob K8WMW at k8wmw@sbcglobal.net

or Stan AC8W at ac8w@arrl.net

This is an ARRL approved Hamfest

Thunder Bay

Amateur Radio

Club

Find us on the web at:
<http://ThunderBayARC.org>



This is a ARRL
Sanctioned
Event

Alpena's 4th Annual Swap meet!
August 19th, 2017
9:00 AM - 2:00 PM

A new month and date!

Held at the Alpena Mall, 2380 US-23 South, Alpena, MI

Make a trip to Alpena, Michigan. Take in a great Swap and see some of the other sites and events in the Alpena area on this weekend.

<http://www.bessermuseum.org/> <http://www.alpenashipwrecktours.com/> <http://thunderbay.noaa.gov/>

Tables only \$5.00

Email W1UP@ThunderBayARC.org to reserve.

Send payment to:

TBARC
PO Box 764
Alpena, MI 49707

There is no entrance fee but, we would like everyone to register.

A donation plus registration qualifies you for door prizes.

You must be present to win a door prize.

See <http://ThunderBayARC.org> for updates and details on the Swap meet.

Amateur Radio Demonstrations during the morning

Bring the Family. The Alpena Mall and the Alpena Area offers a great time for all. Coffee and snacks can be purchased at Cabin Creek Coffee in the Mall. Fast food restaurants within walking distance.

See <http://www.alpenamall.com/> for information on stores in the mall.



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



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
<i>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.</i>	

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

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