



The Scope

November/
December 2017
Volume 17
Issue 10

Central Michigan Amateur Radio Club Lansing Civil Defense Repeater Association

2017 CMARC Annual Christmas Potluck

Who?

All Members and Friends of CMARC, Along with Your Families

When?

Friday, December 8, 2017 @ 7:00 PM

Where?

Lansing Mason Area Ambulance Training Facility

807 Kerns Rd., Mason, MI 48854

What Should I Bring to Eat?

Bring your favorite Appetizer, Casserole, Salad, Holiday Dessert,

Christmas Candies, or Non-alcoholic Beverage.

Crock pots of hot food are always welcome too!

Along with our Annual
Christmas Party, we
will be voting for the
2018 CMARC Board.

The Nominees are as follows:

Dan Beuchert / WX8MOJ
Dennis Shubitowski / NS8H
Don McLain / KB8RAD
Judy Crawford / K8KJC
Michael Boensch / W8MKB
Shawn Crawford / WA8MXJ

Please see Pgs. 4 & 5 for pictures
and biographical information.

Don't forget voting is allowed
by email. You have until 11:59
pm on Thursday, December 7
at cmarcvoting@gmail.com.

Only one vote per member
will be accepted and you must
be a full member to vote.

Treasurer's Reports

John Doornhaag / KD8NNQ - CMARC Treasurer

Bank Balances for September	
Beginning Balance	\$4,275.88
Total Monthly Income	\$12.00
Total Monthly Expenditures	(\$156.13)
Total Business Checking	\$4,131.75
Petty Cash	\$1.00
Sub Total	\$4,132.75
Primary Share Accounts	
Humphrey's Fund	\$1,094.17
Building Fund (Club Station)	\$19.09
Field Day	\$477.75
Total Net Worth	\$5,723.76
Youth Fund Balance*	\$254.10
* Separate from CMARC Funds	

Bank Balances for October	
Beginning Balance	\$4,131.75
Total Monthly Income	\$137.50
Total Monthly Expenditures	(\$535.49)
Total Business Checking	\$3,732.76
Petty Cash	\$1.00
Sub Total	\$3,734.76
Primary Share Accounts	
Humphrey's Fund	\$1,094.26
Building Fund (Club Station)	\$19.09
Field Day	\$477.79
Total Net Worth	\$5,325.90
Youth Fund Balance*	\$254.12
* Separate from CMARC Funds	

Just a reminder that our PO Box will no longer be active after the first of the year. The new physical mailing address will be announced shortly.

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.

October Birthdays:

10/13 Jane Hosford / KC8FSK
10/14 Robert Mann / WD8OEV
10/19 James King / KC8UGV
10/20 Ryan Parks / W8SIR
10/30 Ray Jenks / KD8ZDX

October Anniversaries:

10/4 Mike Holcomb / WX8MH
10/8 Ryan Parks / W8SIR
10/19 Dennis / NS8H and Lisa Shubitowski
10/25 Don Kylman / KE8BPN

November Birthdays:

11/1 Dan Beuchert / WX0MOJ
11/9 Mark Carter / KD8YUY
11/16 Stephen Binns / KD8WVG
11/18 Rogar Barnhill / AB8RX
11/22 Jason Burk / KD8STQ
11/24 Don Tillitson / WB8NUS

November Anniversaries:

11/9 Jim / KC8QWH and Ginny / KD8HPG Hannahs
11/23 Gregg / WB8LZG and Vicki Mulder

December Birthdays:

12/4 Justin Leblanc / KE8FEZ
12/5 Jason McLaughlin / KC8RBK
12/8 Bill Smith / KD8INX
12/12 Leon Langridge / KD8ZPE
12/17 Michael Boensch / W8MKB

December Anniversaries:

12/8 Dan Cameron / KD8QBF
12/19 Justin Leblanc / KE8FEZ
12/21 Charles and Jen Cosler
12/23 James Fick Jr. / KE8ABZ
12/28 Ed / W8EO and Tina Oxer

Upcoming Meetings:

ARPSC

The ARPS meeting for the month of November is at 7:00pm on Monday, November 20th. For the month of December, we will meet on Monday, December 18th. We will be meeting at Lansing Fire Station 48 off Marshall Rd South of Grand River. For more information about the ARPS, please check out our website at www.lansingarp.com.

CMARC Ladies & Girls Christmas Party

When?

Saturday, December 16 @ 11:30 AM

Where?

Colonial Village Baptist Church
2010 Boston Blvd., Lansing MI 48910

What Should I Bring to Eat?

Please bring a dish to pass.

Gift Exchange

Please bring 10-\$1.00 wrapped gifts for Bingo prizes,
AND a wrapped \$6.00 gift to exchange.

RSVP

Shannon Ranes / WA2NVK
wa2nvk@gmail.com or 517-896-5368
NO text messages please. Thank you.

2018 Board Member Nominees



I am Daniel Beuchert, WX8MOJ, and I am interested in becoming a member of the CMARC Board of Directors. I have been licensed since December of 2009, earning my General Ticket in 2010. Shortly after this I joined CMARC, which helped me grow in and become more familiar with the hobby with Field Day, many contests, classes, and recently the Hamfest. Over the years I enjoyed becoming more active in the club and the greater Amateur Radio Community. My wife Dawn-KD8MWA and I have worked as co-editors of the SCOPE newsletter in the past. I have also served on the CMARC Board of Directors as a Director and as President, helped out as a Field Day Co-Chair and a station chair in different years, volunteered at the Hamfest, and helped teach some Technician license classes. I am currently the List-serv administrator for CMARC and a webmaster for the Lansing / Ingham ARPSC. I look forward to helping CMARC in continuing to be a welcoming and active beacon for Amateur Radio

in the region and I would be honored to serve on the Board of Directors if elected by the membership.

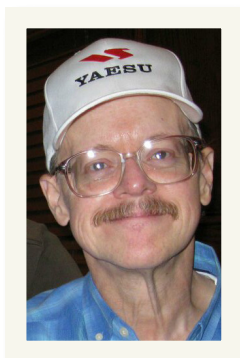


Hi, I am Dennis Shubitowski, NS8H. I am married to my beautiful wife Lisa for 21 years and we have two boys aged 9 and 12. I am currently a Clinical Trial Coordinator for Alzheimer's Disease and dementia patients in the Department of Neurology here at MSU. I have also remained involved in the MSU Amateur Radio Club since becoming a ham.

I have been a ham since 2012 when I earned my Technician and General class license and have been a member of Shiawassee Amateur Radio Club (W8QQQ) since that time. I then studied heavily and sat for and earned my Extra Class license in 2013 along with my VE Credentials. I am a dedicated backpacker and was inspired to become an amateur operator when a friend of mine became lost while backpacking in Virginia. The Virginia Search and Rescue utilized ham radio to communicate in the mountainous terrain using a repeater in a small plane flying above the search area.

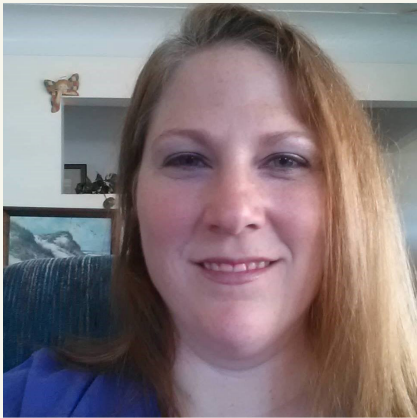
In 2016, my family moved to East Lansing and I then joined CMARC and have been a member in good standing since then. My daily driver is a Kenwood TS-520S into an OCF dipole cut for 80M. My keys are a 1986 Vibroplex Iambic and a Speed X. I use a Yaesu FT-2400H for VHF with an open stub j pole. My ham time is spent learning and improving my CW, DX contacts, minor contesting and chasing paper to broaden my skills. I also like to build and assembled many kits from SWR bridges to CW transceivers like the 1 Watter and Steve Weber's radio kits.

Thank you for considering me for the CMARC Board. It would be an honor to serve!



Hello, my name is Don McLain/KB8RAD. I've been a Ham now for 24 years and an Extra Class for 19. I've been a CMARC member since I first got my ticket. Over the years, I've served on the Board of Directors for a combined total of 13 years. I've been involved in many CMARC activities including: Vice President, Club Contact, Youth Liaison, New Ham Ambassador, and Chairman of the CMARC Speaker/Entertainment Committee. I was also awarded the 2011 Ziegenbein Award and am an active VE. I really love CMARC and it will be a great honor to serve you again!

2018 Board Member Nominees



Hi, I am Judy Crawford, K8JKC. I am fairly new to the world of ham radio. I have watched and heard my husband on the radio countless times. I have attended field day a few times with him in the past. I decided to get my license this year and took my first test in July. I currently hold a tech ticket, but I am studying for my general. I love to help with anything and everything I can. I became a member of CMARC a few months ago when I got my license. Some of my other hobbies include cooking and baking (and of course eating), crafting and sewing. When my kids were in school I volunteered for many of their school and extracurricular activities including sports, plays and musicals, forensics, quiz bowl and anything else the schools needed. I oversaw the soup label and box tops programs as well as fundraising for several years. I was the membership manager for the athletic boosters as well. I oversaw registration and was the statistician for various sporting events I have been involved with.



Hi, I am Michael Boensch, W8MKB. I became interested in Amateur Radio at a Scout Camporee and got my license the following year. I was first licensed in July 2013 and upgraded to General 2 months later. I am a director and membership chair for LCDRA (Lansing Civil Defense Repeater Association). I am also a member of the Lansing ARPSC (Amateur Radio Public Service Corps). I am a Radio Merit Badge Counselor for the Boy Scouts and enjoy getting Scouts involved in Amateur Radio. I have set up amateur radio stations at several different Scout Camporees. I have demonstrated several different modes at the scout camporees. Some of the modes include Voice, Slow-Scan TV, and PSK.



Hi I am Shawn Crawford, WA8MXJ. I was first licensed in November 2013 as a General Class Amateur. I quickly realized that obtaining the license was only the first step in learning about the hobby. I joined CMARC shortly thereafter, and volunteered to assist with the Technician license class that was being planned for the spring of 2014. That one class shortly turned into two. March of 2015 brought the license upgrade to Extra and ARRL VE accreditation. Unfortunately, work commitments changed about that time preventing me from assisting with another weekday licensing class or VE sessions but I do what I can to assist John (KD8NNQ) and the rest of his VE's during the weekend sessions. Previously, family commitments kept me from being able to attend CMARC meetings but with the kids off to make their mark on the world, being a chauffeur, spectator, and cheerleader no longer presents a conflicting schedule.

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.

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.

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.

December 9

Central Michigan Amateur Radio Club (CMARC) will be holding an 8 week course where you can learn everything you need to earn your Technician (entry level) FCC **Amateur Radio License.**

The Technician license is your gateway to the world-wide excitement of Amateur Radio ...

... And now you do NOT need to learn Morse code!

Classes will be held Saturday mornings beginning in January

Specific class dates and start time to be announced. Watch the CMARC home page, Facebook page, and discussion forum for announcements.

**Michigan EMS Educational Services
807 Kerns Road, Mason**

Pre-registration is not required but appreciated.

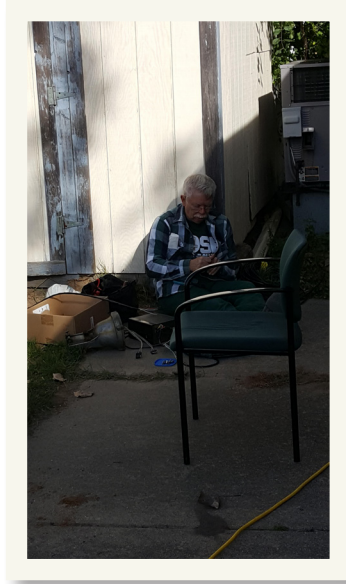
To join, or for more information, contact:
Don McClain, KB8RAD
at kb8radon@aol.com
www.centralmiarc.com

Club Tower Project

By Chris Raney / NS8Q



After discovering the rotor would not turn, Steve (W8RQS), Tom (WA8WPI), and John (KE8CYC) opened the bottom to discover the chain had slipped off the gear.



Steve (W8RQS) re-wired the rotor cable and created a new wiring diagram.



Mark (KD8YUY), Steve (W8RQS), and John (KE8CYC) are adjusting the rotor and rotor plate after inserting the mast pipe which currently holds the dual-band vertical and will hold the Mosley tri-band.



Tom (WA8WPI) on the first section of tower while John (KE8CYC) helps raise the next section via the gin-pole.



Tom (WA8WPI) adjusting the section tower section and preparing to work his way upward.



John (KD8NNQ) and Mark (KD8YUY) are connecting the guy wires to the ground anchors while Tom (WA8WPI) oversees.

PHOTOS: TED SADILEK / WA8MFM

Club Tower Project *cont'd*

PHOTO: TED SADILEK / WA8MFQ



Tom (WA8WPI) and John (KD8NNQ) doing some bird watching while taking a short break!

PHOTO: DAN BEUCHERT / WX8MOJ



Tom (WA8WPI) on the very top of the tower preparing to raise the gin-pole for raising the Mosley tri-bander.

PHOTO: DAN BEUCHERT / WX8MOJ



We left the gin-pole attached at the top of the tower waiting for the next day without any wind.

PHOTO: DAN BEUCHERT / WX8MOJ



Steve (W8RQS) holds the Mosley tri-bander after we had assembled it on a blustery November Saturday. The winds had picked up and was not safe for Tom to climb again. We will reschedule at a later time.

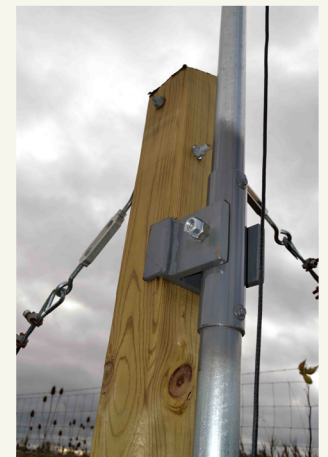
PHOTO: CHRIS RANES / NS8Q



John (KD8NNQ) created a tilt-base for the small tower that once held our 30m vertical. The tower had to be repaired after one of the legs had cracked from ice that had formed inside one of the legs. The tower now holds the short end of our OCF dipole..

John (KD8NNQ) created the tilt base for our 30-ft mast pipe which holds the long leg of our OCF dipole using a 4x4 post and some custom built hinges. The mast is 1-1/2" OD EMT Conduit with custom reinforcing sleeves at the joints.

PHOTO: CHRIS RANES / NS8Q



We are still hoping for one more nice Saturday or Sunday to lift the Mosley onto the tower which will conclude the last part of the outdoor work. Thank you to everyone who came out to help on our various work days. The project has been a huge success and we could not have done it without everyone helping out. Stay tuned for details on a future work day.

HAM? HAM radio? ham radio? Amateur Radio? amateur radio!

By Dan Romanchik / KB6NU



Amateur Radio Emergency Communications Club—was doing. He noted that they were even featured in the police department’s emergency preparedness brochure:

As you can see, the brochure refers to “HAM radio” and “HAM radio operators.”

Referring to amateur radio in this way just drives me crazy. “Ham radio” is just a nickname for amateur radio, and “HAM” is certainly not an acronym for anything. I congratulated Richard on getting his club included in the brochure, but noted, “...it’s not HAM radio! It’s either ‘amateur radio’ or ‘ham radio’ (ham is not an acronym). I hate to be nitpicky about this, but as a professional writer, this usage just drives me crazy.” He replied, “I agree on Amateur Radio, that was the city’s call.”

That kicked off the discussion.

One ham replied to me privately, “Thank you...I am continually trying to explain that it is not an acronym

or abbreviation.”

Another replied to the list:

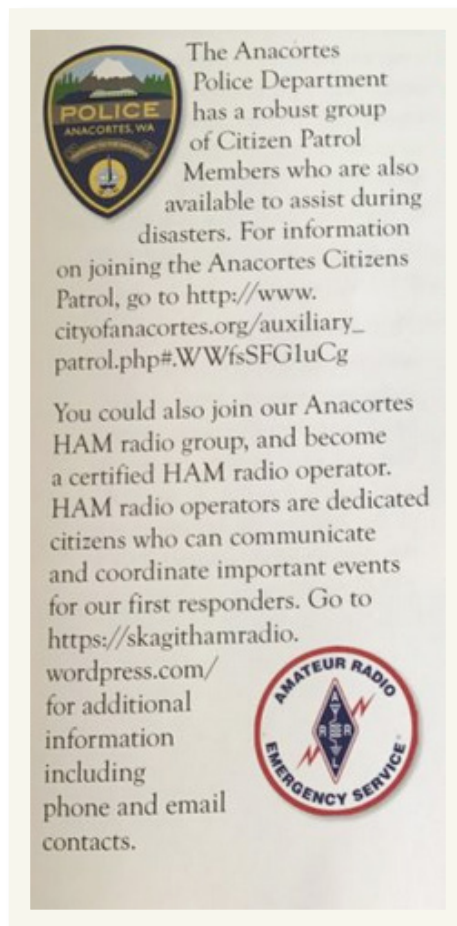
“The most correct term is “amateur radio” or alternatively “ham radio”, both written in normal case. If using “ham radio”, it is a best practice to first write “amateur (ham) radio” in the first non-header/non-title occurrence.

“Some will write “Amateur Radio” in proper noun format (first letters in caps) and while this may be acceptable to many and in certain venues, anyone using a style handbook will say it is incorrect. Less correct is to write “Ham Radio” in proper noun format as this is a slang term, albeit a popular one. Of course either term may be written as proper nouns when part of a title or name of an organization.

“Least correct is to write “HAM” in all caps; as stated by others, ham is not an abbreviation or acronym. Writing it as “HAM” is completely wrong, will drive many people bonkers, and should be avoided at all costs.”

Ward, NoAX, offered this explanation:

“To clarify where the capitalization originated, there is a long-standing ARRL Board Directive, decades old, stipulating that the words “Amateur Radio” be capitalized in ARRL publications and documents. Most non-amateur publications return it to the lower-case style that is used for non-proper nouns.”



HAM? HAM radio? *Cont'd*

One guy got a little miffed that we were wasting our time discussing this at all:

“You know, I’ve been reading this thread and I think people are getting too hung up on very minor details. The bottom line they got PR. So something wasn’t spelled right or capitalized, so what. The message got out and IMHO that’s the bottom line. Let’s not waste any more bandwidth on this.”

I agreed that it was great that they were included in the brochure, and that we were probably beating this topic to death, but I don’t think these are minor details. I said that PR professionals pride themselves on getting the details right. So should amateur radio PR people.

I’ll give the final word to Dan, AI4GK. He wrote:

“I don’t think that standardizing what we call ourselves qualifies as getting hung up on minor details. If we don’t have a standardized way of referring to us, how can we expect a public, who already is confused, to understand who we are?”

I don’t think that you can argue with this. Let’s avoid confusion by using “amateur radio” when writing about our hobby/service. I’d even urge the ARRL to rethink their use of “Amateur Radio.” Sometimes, it may be OK to use “ham radio,” but it’s just not correct to use “HAM radio” or just “HAM.” ■

Catalogs are about possibilities

By Dan Romanchik / KB6NU

When I was a kid, I used to regularly get catalogs, such as the Allied Radio and Lafayette Radio catalogs shown below, and pore over them for hours. Even if I couldn’t afford to buy the latest Knight-Kit or Lafayette shortwave radio, I could imagine what it would be like. These catalogs were chock full of possibilities.



I spent many hours poring over the Allied and Lafayette catalogs as a kid. These two are from 1968, when I was 13 years old.

So, you can imagine how I felt when, last Thursday, I found both the Autumn/Winter 2017 DX Engineering catalog and the 2018-2019 Newark Electronics/element14 catalog in my mailbox.



DX Engineering has really taken the amateur radio world by storm over the last ten years or so. I probably don’t have to tell you about that. If you’re an active

amateur radio operator, I’m sure that you have heard about—and probably ordered from—DX Engineering.

I think that DX Engineering did a very smart thing by investing the money in a print catalog. There’s something about browsing a print catalog that is just more satisfying than browsing online. DX Engineering has just about everything you need to have fun with amateur radio. The one glaring omission? They still don’t carry my study guides!



The Newark/element14 2018-2019 catalog is a completely different beast. Amateur radio operators are only a small part of Newark/element14’s market, but one nonetheless. They have, for example, attended the Dayton Hamvention for many years.

As such, the catalog is not a “ham radio” catalog, but if you build stuff at all you’ll find something of interest in its 1,799 pages. It includes nearly any kind of electronic part that you might need.

Catalogs *Cont'd*

The section that might you might want to start with is the “makerspace” section. In this section, you’ll find Raspberry Pis, BeagleBones, and even micro:bits. They really have everything, though, including passive and active components, connectors, cable, and enclosures.

Like I say, these catalogs are all about possibilities. You can search each company’s website and find the

parts they carry quickly and easily, but that experience is just not the same as browsing a print catalog and daydreaming about what you might find there.

So, get your own copies—they’re free—and page through them. I’d be surprised if you didn’t run across something that you didn’t know about before, and it gave you some ideas about your next amateur radio project. ■

Friends of the Michigan State University Amateur Radio Club

By Joe Levine / W8JRK

The Friends of the MSUARC has recently been organized to encourage, support and strengthen the MSUARC. Members of the MSUARC spend just a few very busy years at the university, trying to balance interest in amateur radio, pursuing an academic program, and their individual growth and development. Students come and go and a sense of continuity for the MSUARC can be hard to maintain from year to year. It is the hope that the MSUARC-Friends can help the MSUARC maintain their continuity when needed through cooperative planning, encouragement, and the providing of needed resources.

So far this academic year we’ve sponsored two “free lunches” for MSUARC members and have hosted a tour of the WKAR broadcast control facilities. Other activities being considered include contest mentoring, a tour of the cyclotron/FRIB facility, a one day license class, antenna construction, using the club’s remote station capabilities, etc.

Please consider joining the Friends and adding your support to the MSUARC. Membership is open to everyone.

The Friends of the MSUARC Bylaws can be accessed at:

<http://www.learnerassociates.net/bylaws.pdf>

An online Membership Form/Application is available at:

<http://www.learnerassociates.net/MSUARCFriends/memberform.html>

Questions/comments should be directly to Joe Levine W8JRK (w8jrk@arrl.net)

CMARC Board Meeting Minutes

September 6, 2017

1) Call to Order

- a) President Tom Rocheleau (WA8WPI) called the meeting to order at 6:45 pm.
- b) All Board members present except for Sam Fitzgerald (N8FPR)

2) Michigan State Parks on the Air:

- a) Clyde (K8CPT), John Winn (KE8CYC), and John Hosford (KC8QZB) have activated Sleepy Hollow State Park at least 3 days so far.
- b) John Winn (KE8CYC) would like to put together a CMARC event with about 20-30 people before it turns cold.
- c) Clyde will get with John to select a date and announce it at the September meeting.

3) Technician Class:

- a) A Technician class will be taught by Tom Rocheleau (WA8WPI), Dan Beuchert (WX8MOJ), and Shawn Crawford, and held here in Mason beginning September 23rd and run each Saturday at 11:00 AM.
- b) There will be no class on October 14 and December 2nd, as well as the Saturday after Thanksgiving.

4) Mailbox:

- a) Within the next couple of months, we are going to need to make arrangements to make sure our new mailing address is set up.

5) Volunteers for the MIS Hamfest:

- a) Tom will forward emails to the Board about the volunteer opportunities for the event.

6) Woldumar Nature Center - American Heritage Festival:

- a) Last Sunday in September (24th) - Bob Strobel (KB8DQQ) mentioned we can set up an Amateur Radio demonstration.
- b) Event runs from 10am-5pm
- c) Our club does not have to pay a fee because we are putting on an educational display.
- d) Clyde said he would step up and organize the event. He is requiring at least one person to help him run things.
- e) We may need a source of AC power to run a small radio.

7) Morse Code Class:

- a) Tom is looking to begin a Morse Code class this coming Winter, possibly beginning in January.

8) Boy Scouts:

- a) In October, there will be a Scouting Jamboree somewhere in Eaton Rapids, which will coincide with Jamboree on the Air.
- b) There will be multiple troops attending the event.
- c) There are going to be multiple events that the Scouts can get involved with. The Amateur Radio part will be a small part of the overall event.
- d) There is talk of putting on a radio merit badge class, so that Scouts who are interested can get their badges. We do need somebody with authority who perform the actual badges.
- e) Russ would like anybody who is interested to contact him by phone or email (n8fz@arrl.net).
- f) More information will be available soon.

9) Dewitt Band Boosters:

- a) The Boosters would like to use our member to help with communications again this year.
- b) The date is tentatively the second Saturday in October from 8:00am-8:30 pm
- c) All interested people should contact Russ.
- d) Members from the Clinton County group will also be helping. The more operators they have, the smoother things will go.

10) License Plate Project:

- a) Russ is still collecting license plates.
- b) The change of location has affected his initial plan, so will be rethinking how we can proceed with things.

11) 501(c)3 Update:

- a) The paperwork is still in the process.
- b) Clyde mentioned there is money available to communication-related non-profits on a county by county basis, but is not being utilized
- c) Once we receive our official non-profit status, he would like to look into what it would take to tap into that money.

12) Scope

- a) Russ made a motion to make the Scope bi-monthly with an occasional special edition. Ted seconded and the motion passes.

With no further business to discuss, the meeting adjourned at 8:10 pm.

Respectfully submitted,

Chris Ranes
CMARC Secretary

CMARC Meeting Minutes
September 8, 2017

1) Call to Order:

- a) Club President Tom Rocheleau (WA8WPI) called the meeting to order at 7:00 pm, and held the Flag for the Pledge of Allegiance.
- b) All Board Members present except for Russ and Sam.

2) Visitors: None

3) Cards and Flowers Report:

- a) Silent Key: Irving Graham (KD8PI) - and we sent \$40 to hospice
- b) A card was sent to Bill Cote (WD8NYW)

4) Acceptance of Secretary's and Treasurer's Report:

- a) Treasurer's Report:
 - i) John Winn (KE8CYC) made the motion to accept as printed in the September Scope, Don McLain (KB8RAD) seconded the motion, the motion passes
- b) Secretary's Report:
 - i) John Winn (KE8CYC) made the motion to accept as printed in the September Scope, Ben Barker (WD8OVL) seconded the motion, the motion passes

5) New Licenses or Upgrades: None

6) Technician Licensing Class:

- a) Classes begin Saturday, September 23 at 11 AM. at our meeting location in Mason.
- b) Shawn Crawford (WA8MXJ), Dan Beuchert (WX8MOJ), and Tom Rocheleau (WA8WPI) will be instructors.
- c) We will be using the ARRL course material.
- d) Should take about 8 Saturdays at about 2 to 2.5 hours per session
- e) There will be no class except October 14th and it should end the week before Thanksgiving.

7) Club Literature:

- a) John Winn (KE8CYC) said it would be nice to have some literature about the club and amateur radio in general to pass out to the public who stops by to visit their operations at Sleepy Hollow State Park

8) Sleepy Hollow State Park on the Air:

- a) QSL requests are being sent to the individual operators in lieu of sending them directly to the club itself.
- b) At some point, we will have to combine all of the qsl cards in one location before sending them out.

9) Dewitt Band Festival: - *See notes from Board Meeting*

- a) Help will be needed to provide communication for their event.
- b) Saturday, October 14th
- c) Contact Person is Russ Fitzgerald (N8FZ) (n8fz@arrl.net)

10) Woldumar Nature Center:

- a) Sunday, September 24th
- b) Heritage Festival
- c) One day event, good for young families.

- d) We have been asked to setup a display to demonstrate Amateur Radio
- e) We will need at least two people - one to operate the radio and others to help explain Amateur Radio to the public.
- f) The event is made to be educational.
- g) Clyde (K8CPT) and John (KC8QZB) said they would like to be operators.

11) Boy Scout Camporee:

- a) There will be a Jamboree in Eaton Rapids - possibly at the VFW home. The location has not been confirmed.
- b) October 21st
- c) *See Board minutes for more information*
- d) Russ (N8FZ) is asking for us to set up a display to demonstrate amateur radio

12) Tower update:

- a) We have the beginning of the tower started.
- b) We have a single section of tower and the base installed.

13) Ladies Night Coordinator:

- a) Russ's wife Kelly said she would step up and coordinate the event. Thanks Kelly.

14) Hamcon:

- a) *See flyer for more information* or visit the website www.gldhamcon.org

15) Elections and Nominations:

- a) Be thinking who you would like to be nominate for the Board.
- b) We will discuss further at the October meeting.
- c) John (KD8NNQ), Russ (N8FZ), and possibly one additional person

16) Possible upcoming events and other ideas for 2018:

- a) Lugnuts game - going as a group with possible group discounts
- b) Get a large amount of people who would like to purchase something like coax or rope. The more people we have interested, the cheaper the price will be when purchasing.

17) 50/50 Raffle:

- a) John Hosford (KC8QZB) won \$12.

18) Adjournment:

- a) John Crawford (WA8MXJ) made motion to adjourn, Michael Boensch (W8MKB) seconded.
- b) Meeting adjourned at 8:15 pm.

Respectfully submitted,

Chris Ranes (NS8Q)
CMARC Secretary

CMARC Board Meeting Minutes

October 6, 2017

1) Call to Order:

- a) President Tom Rocheleau (WA8WPI) called the meeting to order at 6:36 pm.
- b) All members present except for Sam (N8FPR)

2) October Meeting:

- a) Tom said we will be promoting the fact that we will be accepting nominations in November.
- b) We will also go over the procedures for voting.
- c) John's term is up as well as Russ's, and mine. We will check the minutes from last year to see who was actually nominated.
- d) Dan (KD8YDE) volunteered to make a presentation on Friday night about Raspberry Pi's and how to convert an old DirectTV satellite dish into a 2m j-pole antenna. He needs about 45 minutes.

3) Club Bylaws:

- a) Clyde brought up the fact we need to review the bylaws as a Board annually incase there is something that needs to be updated.
- b) Article 6 - Officers
 - i) The by-laws provide instructions on what each position on the Board entails, what the responsibilities are, etc.

4) 501(c)3 Update:

- a) The Board will set up a special meeting in the coming week to sit down and finalize all the paperwork before it is sent in.

5) Expense Report:

- a) John mailed the radio for the ham radio prize at Hamfest, and while it was received by the winter, the expense has not been recorded on the club's debit card. It was \$12.54.

6) Tower Parts & Section for Dan (KD8YDE):

- a) At this point, the Board has decided to install the club's tower first, and then sell Dan whatever parts he needs for his own tower project.

7) New CMARC Forum:

- a) Cmarc.freeforums.net
- b) Clyde created this forum to provide a centralized place where people can go for information. If somebody needs help with a project, looking for volunteers, etc.

8) Technician Class Update:

- a) After nobody showed up the evening of the first class, Tom and Shawn decided to postpone classes until January 20th. We do not have it cleared with Kevin Ammerman as of yet, but further details will come out.
- b) The new time will be 10 am..
- c) The Board is looking at ways to effectively advertise the class to the public.

9) Cards and Flowers:

- a) Jane Hosford (KC8FSK) sent a card to Matthew Taylor (KD8JIA).

10) Ladies Night Entertainment:

- a) Kelly Fitzgerald is still planning on coordinating Ladies Night.

- b) We are going to begin looking for entertainment options and Clyde has volunteered to ask a friend of his who has a string instrument band.
- c) Last year we paid around \$150-\$200 plus purchased the meals for the that night.
- d) Tom will mention about the Ziegenbein award to get people thinking about nominations.

11) Adjournment:

- a) John Doornhaag (KD8NNQ) made a motion to adjourn, Russ Fitzgerald (N8FZ) seconded.
- b) With no further business to discuss, the meeting was adjourned at 8:04 pm.

Respectfully submitted,

Chris Ranes (NS8Q)
CMARC Secretary

Special CMARC Board Meeting Minutes

October 6, 2017

1) Call to Order:

- a) President Tom Rocheleau (WA8WPI) called the meeting to order at 6:36 pm.

2) Roll Call:

- a) Tom Rocheleau (WA8WPI) - President
- b) Russ Fitzgerald (N8FZ) - Vice President
- c) John Doornhaag (KD8NNQ) - Treasurer
- d) Chris Ranes (NS8Q) - Secretary
- e) Ted Sadilek (WA8MFQ) - Director
- f) Clyde Tompkins (K8CPT) - Director

3) Club Callsign Renewals and Appointment of new Trustee(s):

- a) Instructional information from Tracy Dyle from W5YI-VEC:
 - i) Effective 2/19/2011, the Trustee we choose, can only be the Trustee for **ONE** Club callsign and cannot be the Trustee for any other Club.
 - ii) Tracy sent me the official W5YI application that we should use to change the Trustee(s).
 - (1) The application includes the Basic Qualification Question which applies to both the new Trustee and the 2nd Club Official signing the application form.
(a) The Basic Qualification Question requires a simple YES or NO, "Has the Applicant or any party to this application, or any party directly or indirectly controlling the Applicant, ever been convicted of a felony by any state or federal court"?
 - iii) The new Trustee and a 2nd Club Official need to sign the application.
 - (1) The 2nd Club Official can be anybody on the Board, but preferably the President or Vice President.
 - iv) In addition to the completed application, the new Trustee must include a signed copy of their official Amateur Radio license.
 - (1) If the new Trustee does not have a copy, one can be downloaded for free from the FCC ULS database website.
 - (a) The downloadable version has a watermark that states "Reference Copy", and is acceptable by W5YI, as long as it has been signed.
 - (b) The FCC is no longer issuing paper licenses, so Tracy said the Reference copy will have to suffice.
- b) **W8PLP Renewal:**
 - i) Joe DeNomme (N8VYS) has requested to remove himself from the Trustee position of **W8PLP**, the callsign assigned to our Club station.
 - ii) The Board has also received a renewal notification for **W8PLP**.
 - (1) **W8PLP** is set to expire 11/21/2017.
 - iii) According to the FCC ULS Database, the current address for the license is as follows:
 - (1) 250 E. Fitchburg Rd. Leslie, MI 49251.
 - (2) After discussions, the Board decided to change the address to the new Trustee's home address.

iv) **Motion:**

- (1) John Doornhaag (KD8NNQ) made a motion that we officially ask CMARC Secretary Chris Ranes (NS8Q) to become Trustee of W8PLP, and change the address from what is currently listing in the ULS database to the home address of Chris Ranes (NS8Q). Central Michigan Amateur Club will remain on the license so the Board retains ownership.
- (2) The motion was seconded by Russ Fitzgerald (N8FZ) and approved by the Board.
- (3) Chris Ranes (NS8Q) accepted the position of Trustee of W8PLP.

c) **W8MAA Renewal:**

- i) **W8MAA** is set to expire on 11/13/2017.
- ii) An email was received by Club President Tom Rocheleau (WA8WPI) from Bob Berger (K8RDN) stating he does not want to remain Trustee of **W8MAA**. It has been recommended that we ask John Hosford (KC8QZB) or Ron Harger (WD8BCS) if they would be interested in taking that responsibility.
- iii) Since John and Ron are both heavily involved in Field Day, and **W8MAA** is the callsign we use solely for that purpose, it only seems appropriate to ask the two individuals who are always on-site.
- iv) According to the FCC ULS Database, the current address for the license is as follows:
 - (1) PO Box 27321, Lansing MI 48909
 - (2) After discussions, the Board decided to change the current address listed in the ULS database to the home address of the individual who decides to become Trustee.

v) **Motion:**

- (1) John Doornhaag (KD8NNQ) made a motion that we officially ask either John Hosford (KC8QZB) or Ron Harger (WD8BCS) if one of them would like to become the Trustee of W8MAA as long as Joe DeNomme (N8VYS) confirms he no longer wants to remain in that position, at which point a revised application will be filed for W8MAA. Central Michigan Amateur Club will remain on the license so the Board retains ownership.
- (2) The motion was seconded by Ted Sadilek (WA8MFQ) and approved by the Board.

- 4) With no further discussions to be made, Clyde Tompkins (K8CPT) made a motion that we adjourn, Ted Sadilek (WA8MFQ) seconded the motion, and the meeting was adjourned at 8:10 pm.

Respectfully submitted,

Chris Ranes (NS8Q)
CMARC Secretary

Tom Rocheleau (WA8WPI)
CMARC President

Russ Fitzgerald (N8FZ)
CMARC Vice President

CMARC Meeting Minutes
October 13, 2017

1) Call to Order:

- a) Club Vice President Russ Fitzgerald (N8FZ) called the meeting to order at 7:15 pm
- b) John Doornhaag (KD8NNQ) held the Flag for the Pledge of Allegiance.
- c) All Board Members present except for Ted (WA8MFQ) and Sam (N8FPR).

2) Attendance: There were 27 Members and 1 Visitor (Ken McGuire KC8LTL).

3) Cards and Flowers Report:

- a) Card was sent to Matthew Taylor (KD8JIA)

4) Acceptance of Secretary's and Treasurer's Report:

- a) Secretary's Report:
 - i) John Winn (KE8CYC) made a motion to accept the Secretary's Report as published on the CMARC website, Ben Barker (WD8OVL) seconded the motion, and the motion passes.
- b) Treasurer's Report:
 - i) Bob Crawford (K8ZAP) made a motion to accept the Treasurer's report as published on the CMARC website, John Winn (KE8CYC) seconded the motion, the motion passes.

5) DX Contacts:

- a) John Hosford (KC8QZB) worked Costa Rica and the Azores from Sleepy Hollow State Park with his 31-foot vertical.
- b) Dennis (NS8H) - Lithuania, and Cocos Reefs Island DXpedition
- c) Steve Lyon (W8RQS) - Worked a 2m repeater in New York

6) Great Lakes HamCon:

- a) Clyde (K8CPT) came in second for the Michigan State Parks on the Air. He won a \$250 prize from MFJ and received his award during the HamCon event.
- b) Ed Hude (WA8QJE) gave a short recap of the HamCon event. On the positive side, it was a good turnout with about 1,200 people showing up the first day. However many of the out-of-state vendors who organizers thought would show up, ended up not coming because of an issue with the sales tax. They hope to have the issues taken care of by next years event. The forums were very well attended. The flea market had approximately 50 vendors located within the infield of the track. The biggest complaint that Ed heard was concerning a lack of signage around the facility as well as the fact of there being just one or two ladies restrooms.
- c) No matter what we talk about, there is always someone who spoils things for everyone else. HamCon is no different. Someone drove their 4x4 onto the track and made it one time around before exiting. The owners of the track were not pleased and hopefully the organizers can smooth things over so they can continue to use the track next year.

7) Tower update:

- a) The final concrete has been poured, including the base for the small 30-foot tower, the base for the 4x4 to support the long end of our dipole, as well as the guy rod anchor bases.

8) Upcoming Events:

- a) Boy Scout Camporee
 - i) Russ (N8FZ) mentioned multiple Boy Scout Troops are coming together for a large Camporee event in Eaton Rapids. The Camporee will take place on Saturday, October 21 from 4-7 pm and will coincide with the annual ARRL Jamboree on the Air. Russ needs a couple of volunteers to set up a small ham radio station covering HF and 2m in hopes that will encourage young people to become interested in Ham Radio.
- b) Multiple High School Band Competition Event:
 - i) Because of the excellent job we did in previous years, the organizers of this event are once again requesting us to provide communications. The event begins at 11:30 AM on Saturday, October 14 and is located at the Dewitt High School. Russ (N8FZ) is requesting four or five people who are interested in helping out. We will use 146.43 Mhz simplex for the event.
 - ii) This is a fundraiser for the Dewitt Band and each year they receive a sizable donation.

9) Free Copies of QST:

- a) See Russ (N8FZ) if you are not an ARRL member and would like issues of the QST magazine. He has duplicate copies and is giving them away.

10) License Plate Project:

- a) Russ (N8FZ) is still working on the project and continues to accept plates if you would like to donate them.

11) CMARC Forum:

- a) Clyde (K8CPT) began an online forum for CMARC members to use. The idea is to provide an alternative to Facebook for those who are concerned about privacy and other issues and end up cancelling their accounts. Sign-up is easy - just use your call sign as your user name, and if you do not have one, use your name instead. A link has been provided on the CMARC website, or you can go directly to <https://cmarc.freeforums.net>.

12) Licensing Class:

- a) The Technician Class which we had originally scheduled to begin in September has been postponed until January. The exact start date has yet to be determined, but will run for several Saturdays, with each class lasting a couple of hours. At the end of the class a special VE session will be held to make it easier for students to pass their tests. The Board is looking at several options for ways to advertise the classes in order to increase participation.

13) Wednesday Night Traders Net:

- a) Clyde (K8CPT) is asking for someone to take the last Wednesday night of each month.

14) Nominations:

- a) We are looking for people who are willing to serve on the Board.
- b) Positions are a 2-year term, except for the Under 22 Director position which is a 1-year term.
- c) If you want to nominate someone but they are unable to making the November meeting, be sure to talk with them first and make sure they agree.
- d) Meetings are generally held the Saturday before the regular club meeting at 5:30 pm in Mason. Meetings are held to the public as usual, so you are welcome to come see what a Board meeting is like if you are at all curious.

15) Call Sign Renewals:

- a) See minutes from the Special Board meeting.

16) Ladies Night Luncheon:

- a) All Ladies are invited to a luncheon at Cracker Barrel on West Saginaw Hwy on Saturday, October 21st at noon.

17) 501(c)3 Update:

- a) Final paperwork has been sent in and the money has been pulled from our account.

18) 50/50 Raffle:

- a) Al Wright (KE8DR) won \$27 and he donated \$13.50 back to the club. Thanks Al.

19) Membership Dues:

- a) This month we began taking dues for 2018. The price remains the same as last year. You can find membership forms in the back of the Scope, by visiting the CMARC website, or by asking our Treasurer John Doornhaag (KD8NNQ) at an upcoming meeting.

20) Adjournment:

- a) Judy Crawford (K8JKC) made a motion to adjourn the meeting, Bob Crawford (K8ZAP) seconded the motion, and the motion passes. With no further business to discuss, the meeting was adjourned at 8:28 pm.

Respectfully submitted,

Chris Ranes (NS8Q)
CMARC Secretary

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.



Central Michigan Amateur Radio Club

W8PLP/W8MAA

Membership Form



For new CMARC applicants: Please complete all sections.

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

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

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

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

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

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