



# THE SCOPE



Lansing Civil Defense Repeater Association

## December CMARC Meeting

Come join us this Friday, December 9<sup>th</sup> at 7:00 p.m. as we celebrate our Annual Christmas Potluck! Don't forget to bring your favorite dish to pass. (More on page 3!)

This meeting we will also be voting for board members for 2015.

There is one 1-year position, three 2-year positions and the Under 22 position open. Here are the nominees:

- Jane Hosford/KC8FSK
- Chris Ranes/NS8Q
- Julie McLain/KB8ZXR
- Tom Rocheleau/WA8WPI
- Russ Fitzgerald/N8FZ
- Kenny Hazlett/N8BVV
- Sam Fitzgerald/N8FPR is the only person running for the Under 22 position.

Biographies of the candidates can be found at the following website:

<http://centralmiarc.com/candidates.php>

Voting by email is allowed up to midnight the day before the elections at [cmarcvoting@gmail.com](mailto:cmarcvoting@gmail.com). One vote per member. You must be a full member to vote.

### Scoping out THE SCOPE

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VE Testing  
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## MEETING SCHEDULE

| GROUP           | CMARC<br> | ARPSC<br> | LCDRA<br> |
|-----------------|--------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|
| <b>DATE</b>     | 12/12/14                                                                                   | NO                                                                                          | 01/15/15                                                                                     |
| <b>TIME</b>     | 7:00 P.M.                                                                                  | DECEMBER                                                                                    | 7:00 P.M.                                                                                    |
| <b>LOCATION</b> | SALVATION ARMY                                                                             | MEETING                                                                                     | FIRE STATION # 8                                                                             |
| <b>WEBSITE</b>  | <a href="http://WWW.CENTRALMIARC.COM/">WWW.CENTRALMIARC.COM/</a>                           | <a href="http://WWW.LANSINGARPSC.COM/">WWW.LANSINGARPSC.COM/</a>                            | <a href="http://WWW.LCDRA.NET/">WWW.LCDRA.NET/</a>                                           |

| December                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | January                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p><b>Birthdays</b><br/>                     12/07 MICHAEL BOENSCH/KD8VHT<br/>                     12/08 TED SADILEK/WA8MFQ<br/>                     12/08 WILLIAM SMITH/KD8INX<br/>                     12/09 CHARLES TARICKA/KD8VJM<br/>                     12/11 RUSSELL FITZGERALD/N8FZ<br/>                     12/11 KALIL OLSEN<br/>                     12/12 ROBERT MANN/WD8OEV<br/>                     12/16 ALAN SHAW/WB8YOX<br/>                     12/24 JOHN LISTERMANN/KD8ZHC</p> <p><b>Anniversaries</b><br/>                     12/18 DAN CAMERON/KD8QFB<br/>                     12/18 RALPH CHAPMAN/WA8NHD<br/>                     12/23 JAMES FICK, JR.<br/>                     12/28 DAVE HAYHURST/K8QH<br/>                     12/31 DAN/WX8MOJ AND DAWN/KD8MWA<br/>                     BEUCHERT</p> | <p><b>Birthdays</b><br/>                     01/07 CHARLES CULTON/WD8PVS<br/>                     01/12 EDWARD HARTWICK/KC8NQM<br/>                     01/12 TOM CAIN/KB8ZL<br/>                     01/17 ROBERT STROBEL/KB8DQQ<br/>                     01/20 R.E. LINDBERG/WA8ZWR<br/>                     01/23 JOHN INGRAHAM/NG8L<br/>                     01/23 MARY TILLITSON<br/>                     01/24 PAMELA DENOMME/KB8PSF</p> |

### Ingham County VE Group

**Location:** Ingham County Sheriff's Department, Mason  
**Contact:** Don McLain/KB8RAD (517) 694-0812 [KB8RAD@ARRL.NET](mailto:KB8RAD@ARRL.NET)  
**Thursday @ 7:00 p.m.** TBA  
**Saturday @ 11:00 a.m.** TBA

### Eaton Co. ARC

**Location:** Eaton Co Sheriff Dept-EOC, 1025 Independence Blvd. Charlotte, MI 48813  
**Contact:** Mark Korroch(WB8TGY) (517) 645-2378 [wb8tgy@yahoo.com](mailto:wb8tgy@yahoo.com)  
**Saturday at 12:00 p.m.** December 13

### Corunna VE Team

**Location:** American Red Cross, 702 Corunna Ave, Corunna MI 48817-1230  
**Contact:** Thomas Carpenter/KI8AS (989)277-2262 [KI8AS@CHARTER.NET](mailto:KI8AS@CHARTER.NET)  
**Thursday @ 7:00 p.m.** December 18



**YOU ARE ALL CORDIALLY INVITED TO JOIN US FOR  
CMARC'S ANNUAL 2014 CHRISTMAS POTLUCK**

**WHO'S INVITED?**

All Friends and Members of CMARC,  
Along with Your Families

**WHERE'S IT AT?**

The Salvation Army Building  
Located at 701 W. Jolly Road in Lansing

**WHEN IS IT?**

Friday, December 12, 2014  
At 7:00 p.m.

**WHAT DO I NEED TO BRING?**

Our December meeting is always the best attended meeting of the year, because it's our Christmas Potluck!! To make sure we have plenty to go around we're asking everyone to bring something to contribute towards the meal. You can bring your favorite Appetizer, Casserole, Salad, Holiday dessert, Christmas Candy or non-alcoholic beverage. And Crock pots are welcome because they always have something really delicious inside like Baked Beans, Scalloped Potatoes & Ham, Holiday Meatballs or Little Smokies, Chili, or Macaroni & Cheese, just to mention a few!! (Plates, cups, napkins, plastic ware all provided by CMARC)

I'll have a Food sign-up sheet at the November meeting, or you can call me during the month to add your tasty contribution. If you need an idea of what to bring, call me & I can let you know what hasn't been signed up for yet. Everyone always has a great time, so I'll see you on Friday, December 12th at 7:00 pm when you join us for the 2014 CMARC Christmas Potluck!!

Julie McLain KB8ZXR, Refreshments Coordinator  
517-694-0812 or [KB8ZXR@aol.com](mailto:KB8ZXR@aol.com)





**ARRL**  
**VEC**

**“ARRL PRACTICE AMATEUR RADIO EXAMS”**

Sponsored by the “Ingham County VE Group”  
VE Julie McLain KB8ZXR

- **Technician Class 2014 Pool**

1.) Question T4A09 - Which of the following could you use to cure distorted audio caused by RF current flowing on the shield of a microphone cable?

- A. Low-pass filter
- B. Band-pass filter
- C. Preamplifier
- D. Ferrite choke

2.) Question T1A11 - When is willful interference to other amateur radio stations permitted?

- A. At no time
- B. Only during a contest
- C. At any time, amateurs are not protected from willful interference
- D. Only if the station being interfered with is expressing extreme religious or political views

3.) Question T5B09 - What is the approximate amount of change, measured in decibels (dB), of a power increase from 5 watts to 10 watts?

- A. 10 dB
- B. 2 dB
- C. 5 dB
- D. 3 dB

- **General Class 2011 Pool**

1.) Question G2C10 - What does the Q signal 'QRQ' mean?

- A. Slow down
- B. Send faster
- C. Quitting operation
- D. Zero beat my signal

2.) Question G4D06 - Where is an S meter found?

- A. In an SWR bridge
- B. In a transmitter
- C. In a conductance bridge
- D. In a receiver

3.) Question G1C08 - What is the maximum symbol rate permitted for RTTY or data emission transmitted at frequencies below 28 MHz?

- A. 19.6 kilobaud
- B. 56 kilobaud
- C. 1200 baud
- D. 300 baud

• **Extra Class 2012 Pool**

1.) Question E9H02 - What is the effective radiated power relative to a dipole of a repeater station with 200 watts transmitter power output, 4-dB feed line loss, 3.2-dB duplexer loss, 0.8-dB circulator loss and 10-dBd antenna gain?

- A. 317 watts
- B. 2000 watts
- C. 126 watts
- D. 300 watts

2.) Question E9D05 - Where should a high-Q loading coil be placed to minimize losses in a shortened vertical antenna?

- A. As close to the transmitter as possible
- B. As low as possible on the vertical radiator
- C. Near the center of the vertical radiator
- D. At a voltage node

3.) Question E3B11 - Which of the following describes gray-line propagation?

- A. Long distance communications at twilight on frequencies less than 15 MHz
- B. Over the horizon propagation on the 6 and 2 meter bands
- C. Backscatter contacts on the 10 meter band
- D. Tropospheric propagation on the 2 meter and 70 centimeter bands

Questions and Answers Copied from ARRL's "Practice Amateur Radio Exams" found at: <http://www.qrz.com/hamtest/>

**\*\*ANSWERS\*\*** Technician: 1-D; 2-A; 3-D General: 1-B; 2-D; 3-D Extra: 1-A; 2-C; 3-A

December 2014

**HAPPY  
NEW  
YEAR**



### **JANUARY'S TEA TIME LADIES!!**

January 2<sup>nd</sup> – Tammy Burk's Birthday!!  
January 17<sup>th</sup> – Leota Strobel's Birthday!!  
January 23<sup>rd</sup> – Mary Lou Tillitson's Birthday!!  
January 23<sup>rd</sup> – Betty Hunsaker's Birthday!!  
January 31<sup>st</sup> – Kim Treleaven's Birthday!!



### **JANUARY'S LADIES TEA TIME LUNCHEON!!**

“Hello” to all my Tea Time Ladies and a very Happy New Year 2015! For our first Ladies Tea Time Luncheon of the New Year, I hope you will all join me on Saturday, January 17th at 12:30pm! We will be meeting at the “Flap Jack Family Restaurant”, located at 6927 S. Cedar St. in South Lansing.

Remember Ladies, you don't need a Ham License to take part in our get-togethers. You only need to enjoy good food, good fun and good fellowship! Please let me know by Friday, January 16th if you're planning to attend (517.694.0812 or KB8ZXR@Aol.com). I hope you will be, because we always have such a good time getting together—and I'm sure you will, too!

### **THE LADIES TEA TIME NET!**

Please join me every Tuesday evening at 7 pm on the 145.39 (100 Hz PL) Lansing-area repeater for the “Ladies Tea Time Net”. The Net can also be accessed via the EchoLink \*DODROPIN\* Conference Server (Node ID# 355800). The main goal of this Net is to get our Lady Hams out on the air each week, having fun as they visit together. And for those Ladies without a Ham license...you can still check in “Third Party”, as long as your licensed husband or friend checks in first. Remember, we always look forward to having our Gentlemen join us for a fun time, too, right AFTER the “Ladies Only” portion of the Net!! So, pour yourself a nice glass of iced tea, key up the mic and join me for the “Ladies Tea Time Net”... I'll be listening for you!

~Julie McLain, KB8ZXR~

Ladies Tea Time Net & Luncheon Coordinator  
(517) 694-0812 or KB8ZXR@aol.com  
[www.centralmiarc.com](http://www.centralmiarc.com)







SINCE 1921



## CMARC BOARD MEETING NOVEMBER 14, 2014

President Dan Beuchert/WX8MOJ called the meeting to order at 6:33 pm with the following board members in attendance: Vice President Don McLain/KB8RAD, Treasurer Jerry Waite/KD8GLN, Secretary Jane Hosford/ KC8FSK, Director Sharon Waite/KD8HHK, Director John Doornhaag/KD8NNQ and Under 22 Director Sam Fitzgerald/N8FPR.

- Board nominations for 2015.  
There are four people that are up for reelection this year: Dan Beuchert/WX8MOJ, Sharon Waite/KD8HHK, John Doornhaag/KD8NNQ and Jane Hosford/KC8FSK, plus the under 22 director Sam Fitzgerald/N8FPR.  
Dan/WX8MOJ has decided to step down along with Sharon/KD8HHK and John/KD8NNQ.  
Chris Ranes/NS8Q nominated himself.  
Must select an election committee.  
Have nominees stand up and introduce themselves.
- Jerry/KD8GLN suggested that the Club donate \$150.00 to the Salvation Army.  
John/KD8NNQ made a motion that we donate \$150.00 to the Salvation Army, seconded by Jerry/KD8GLN and approved.

Motion to adjourn made by Jerry/KD8GLN, seconded by Don/KB8RAD and approved. Meeting adjourned at 7:00pm.

Respectfully submitted,  
Jane Hosford/KC8FSK-Secretary

## CMARC MEETING MINUTES November 14, 2014

President Dan Beuchert/WX8MOJ called the meeting to order at 7:04pm and welcomed both members and visitors attending tonight.

We do have name tags for everyone if you don't have your own, so please use, so we know who everyone is.

A moment of silence for our silent keys.

### **ATTENDANCE:**

There were 53 people in attendance. Visitors included: Gloria Cote, Samantha Wellwood, Jessilynn

Triplett, Mary Tillitson, Bev Sadilek, Ruth Schaar, Henry Hoadley/KD8NGH, Rebecca Hoadley, Matt Beha, Juan Carlos Sanchez, Zowie Ali Beha, Maran Elane Beha, Linda Dunahoo, Jessica Seaver, Vicki Dembinski.

**NEW LICENSES, UPGRADES and VANITY CALLS:**

None.

**CARDS AND FLOWERS REPORT:**

**INTERESTING DX CONTACTS:**

- Ben Barker/WD8OVL worked Moscow on 10 meters.
- Brian/KD8ONC did some contesting.

**OLD BUSINESS:**

- A motion to accept the October Secretary's Report as printed in the October SCOPE was made by Don/WB8NUS, seconded by Jimmy/KD8IWQ, and approved.
- A motion to accept the October Treasurer's report as printed in the October SCOPE was made by Don/KB8RAD, seconded by Kenny/N8BVV and approved.
- Ken/W8AAX: as of January 1, 2015 will no longer be doing the 10 meter net on Thursdays @9:00pm, 28.495. Debbie Headley/KD8YUX has volunteered to take over the net.
- Dan/KD8YDE is working on a printed form for the new membership directory. Forms will be given out at the December meeting.

Please pay your dues. CMARC dues to Jerry/KD8GLN and LCDRA dues to Julie/KB8ZXR. Dues made now for 2014 will be carried through 2015.

NOTE: IF YOU WISH TO HAVE YOUR ANNIVERSARY AND BIRTHDAY MENTIONED IN THE SCOPE PLEASE FILL OUT THE MEMBERSHIP FORM THAT'S IN THE SCOPE OR ONLINE.

**NEW BUSINESS:**

Board elections in December for 2015. There are four positions that are up for reelection: Dan Beuchert/WX8MOJ/ John Doornhaag/KD8NNQ, Sharon Waite/KD8HHK and Jane Hosford/KC8FSK, plus the under 22 director Sam Fitzgerald/N8FPR. Dan/WX8MOJ has decided to step down along with Sharon/KD8HHK.

There is one 1-year position, three 2-year positions and the Under 22 position.

Don McLain/KB8RAD nominated Jane Hosford/KC8FSK and she accepted the nomination.

Chris Ranes/NS8Q nominated himself.

Don McLain/KB8RAD nominated Julie McLain/KB8ZXR and she accepted the nomination.

Dan Beuchert/WX8MOJ nominated Tom Rocheleau/WA8WPI and he accepted the nomination.

Daniel Burk/NE8K nominated Russ Fitzgerald/N8FZ and he accepted the nomination.

Kenny Hazlett/N8BVV nominated himself.

Sam Fitzgerald/N8FPR is the only person running for the Under 22 position.

DonTillitson/WB8NUS made a motion to close the nominations, seconded by John/KD8NNQ and approved.

Voting by email is allowed up to midnight the day before the elections at [cmarcvoting@gmail.com](mailto:cmarcvoting@gmail.com). One vote per member. You must be a full member to vote.



Election Committee: Dan Dembinski/KD8YDE, Dick McGuire/KI8C, Jimmy Dunahoo/KD8IWQ. Don/KB8RAD made a motion to accept the election committee, seconded by Jan Bradfield/KC8BFK and approved.

- The Club received a thank you from John Doornhaag's/KD8NNQ family for the donation made in his father's name to Grace Hospice.
- Fort Wayne swap tomorrow.
- December meeting will be our annual Christmas party. Please let Julie McLain/KB8ZXR know what you plan on bringing to the festivities, 517-694-0812, kb8zxl@aol.com. We will also be voting for the 2015 Board. You must be a full member to vote, one vote per member.

**UNDER 22 REPORT:** Nothing to report.

**50/50 DRAWING:** Jimmy/KD8IWQ won \$21.00.

**MAIN PROGRAM AND/OR SPEAKER:**

Ted Sadilek/WA8MFQ, Bev Sadilek and Ruth Schaar are docents at Potter Park Zoo and they brought some animals in for us to see tonight:

- a legless lizard
- red tailed boa constrictor
- rabbit
- rat
- eastern screech owl
- red tailed hawk
- eurasian eagle owl

The Club collected \$131.00 for Potter Park to help cover their costs for tonight.

Motion to adjourn made by Jimmy/KD8IWQ, seconded by Jerry/KD8GLN and approved. Meeting adjourned at 9:20 pm.

Respectfully submitted,  
Jane Hosford/KC8FSK-Secretary

| <b>November 2014 Treasurer's Report</b>                                 |                  |
|-------------------------------------------------------------------------|------------------|
| <b>Primary Share Acct. (Humphreys Fund)</b>                             | <b>\$1091.13</b> |
| <b>Business Checking</b>                                                | <b>\$4129.64</b> |
| <b>Net Worth</b>                                                        | <b>\$5218.77</b> |
| <b>Youth Fund Balance* (as of 04/2013)</b>                              | <b>\$253.42</b>  |
| <b>Building Fund (Club Station)</b>                                     | <b>\$9.09</b>    |
| <b>Field Day</b>                                                        | <b>\$372.15</b>  |
| <b><i>separate from CMARC Funds</i></b>                                 |                  |
| <b>Submitted,</b><br><b><i>Jerry Waite/KD8GLN - CMARC Treasurer</i></b> |                  |

## NETS in the Greater Lansing Area

“**The Breakfast Club Net**” meets EVERY weekday morning from 7am to 11am on the 145.39 repeater (PL 100 Hz), with Net Coordinator Don McLain/KB8RAD. This Net has been around now for over FOUR YEARS (since September 24, 2009) and averages around 90-100 check-ins per morning, but the NEW all-time record is 118 people in one morning's Net (and that's NOT counting rechecks)! So, if YOU are getting bored with just listening to Broadcast Radio during the morning commute, come and see what all the commotion's about—join Don and the rest of the gang every weekday morning on “The Breakfast Club Net”! They'll not only wake you up—they'll put a smile on your face, too! And thanks to Daniel Burk/NE8K, EchoLink is now available each morning via the \*DODROPIN\* Conference Server (ID# 355800), so it's never been easier to check in and join the fun! Whether you're somewhere throughout the United States (or world), or right here in the mid-Michigan area, you can now check in by repeater, your computer, your cellphone or other EchoLink device—at your convenience! So, stop by in the morning and say, “Hello!”...and while you're at it, why not join “The Breakfast Club Net” Facebook Group! They are already 353 members strong and would love to have YOU join them, too! [www.facebook.com/groups/112208875498362](http://www.facebook.com/groups/112208875498362)

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 “**Lansing Area/Ingham County Amateur Radio Public Service Corps Training Net**” meets on the first Monday night of the month at 7pm on the 145.39 repeater (PL 100 Hz). Volunteer Net Control Operators are needed each month, as well as someone to provide Training, so if you are an ARPS member and wish to sign up, contact Net Coordinator Don McLain/KB8RAD at (517) 694-0812.

The “**Ladies Tea Time Net**” meets every Tuesday evening at 7pm on the 145.39 repeater (PL 100 Hz), with Net Coordinator Julie McLain/KB8ZXR, and can now also be found on the \*DODROPIN\* EchoLink Conference Server (ID# 355800)! Everyone is welcome to check in—even all you guys!! This Net has been around now for SIX AND A HALF YEARS (since July 3, 2007), so let's keep it going and growing!!

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. Be sure to stop by after Julie's Net and say “Hello!”

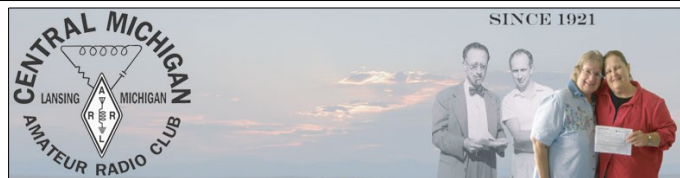
The “**Mid-Michigan Information & Trader's Net**” meets every Wednesday evening at 7:00pm on the 145.39 repeater (PL 100 Hz), with Net Coordinator Don McLain/KB8RAD. This Net has been around now for over FOUR YEARS (since November 11, 2009) and is still growing!! Be sure to join Don for a time of FUN, FELLOWSHIP, and INFORMATION!! There will be helpful Ham-related information to share from both Net Control and our check-ins, time for questions and answers, and “Trader's Net” style on-the-air swapping of Ham-related equipment throughout the Net. Sounds like a good time to me!!

The “**Michigan Radio Amateur Youth Net**” (or MRAY) meets every Thursday night at 7pm on the 145.39 repeater (PL 100 Hz), with Net Coordinator Matt Miller/KD8OOS or other area young people. In addition, EchoLink is available for the first hour of the Net by searching for “MRAY”, or the \*DODROPIN\* Conference Server (ID# 355800). Although the Net specifically targets the Youth (who are the future of Ham Radio), ADULTS are welcome to check in, too!! Also, Third-Party check-ins are encouraged to join the Net as a way of introducing young people to the Hobby. So, EVERYONE be sure to check into the MRAY Net and show YOUR support for our youth!

**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.**

## The CMARC & LCDRA Board

The SCOPE is published by the CENTRAL MICHIGAN AMATEUR RADIO CLUB in association with the LANSING CIVIL DEFENSE REPEATER ASSOCIATION.



### Our CMARC Officers

|                  |                                            |                    |
|------------------|--------------------------------------------|--------------------|
| President:       | Daniel Beuchert-WX8MOJ                     | Ph: (517) 604-1379 |
| Vice President:  | Donald McLain-KB8RAD                       | Ph: (517) 694-0812 |
| Secretary:       | Jane Hosford-KC8FSK                        |                    |
| Treasurer:       | Jerry Waite-KD8GLN                         | Ph: (517) 882-5406 |
| Director:        | John Doornhaag-KD8NNQ                      |                    |
| Director:        | Sharon Waite-KD8HHK                        | Ph: (517) 882-5406 |
| Under 22:        | Matt Miller-KD8OOS                         |                    |
| Cards/Flowers:   | Jane Hosford-KC8FSK                        | Ph: (517) 648-8240 |
| Photographer:    |                                            |                    |
| Club Contact:    | Donald McLain-KB8RAD                       | Ph: (517) 694-0812 |
| Building Coord.: | Dan Beuchert-WX8MOJ                        | Ph: (517) 604-1379 |
| QSL/ Awards Mgr: | Don DeFeyer-KC8CY                          | Ph: (517) 641-4533 |
| Scope Editors:   | Dawn Beuchert-KD8MWA & Dan Beuchert-WX8MOJ |                    |

**\*\*email address: [cmarcscope@hotmail.com](mailto:cmarcscope@hotmail.com) \*\***  
**Deadline for SCOPE: 20th. of month**

**Meetings are held the second Friday of every month at:  
Salvation Army-Capital Area, 701 W. Jolly Road, Lansing  
at 7:00pm. Board Meeting begins at 6:30 pm.  
Club Calls: W8MAA & W8PLP**



### Our LCDRA Officers

|                   |                        |                                                      |
|-------------------|------------------------|------------------------------------------------------|
| President:        | John Imeson- N8JI      | Ph: (517) 449-1517                                   |
| Vice Pres:        | Don Tillitson-WB8NUS   | Ph: (517) 321-2004                                   |
| Secretary:        | Ron Harger- WD8BCS     | <a href="mailto:wd8bcs@arrl.net">wd8bcs@arrl.net</a> |
| Director:         | Jan Bradfield- KC8BFBK | Ph: (517) 202-1779                                   |
| Director:         | Donald McLain-KB8RAD   | Ph: (517) 694-0812                                   |
| Director:         | Jim Harvey-KA8DDQ      | Ph: (517) 882-5796                                   |
| Tres./Mem. Ch:    | Jeff Oberg-KB8SXX      | Ph: (517) 712-1302                                   |
| Repeater Trustee: | Dennis Boone-KB8ZQZ    | email: <a href="mailto:drb@msu.edu">drb@msu.edu</a>  |

### LCDRA Call: W8BCI

**Meetings: Quarterly on the third  
Thursday of the month, beginning at  
7:00pm. Meetings are held at  
\*\*\*Fire Station #8, Marshall St, Lansing\*\*\***

# Show Your Support for Amateur Radio and Join CMARC & LCDRA Today!



## JOIN TODAY!

Central Michigan Amateur Radio Club, Inc.

As a licensed Amateur, you can **sign up today** as a Full Member. As a Full Member of CMARC, you will receive voting rights and an annual subscription to 'The SCOPE'. This newsletter is filled with Club News, special interests and events.

**Sign up today** as an Associate Member and it includes an annual subscription to 'The SCOPE'. (no voting rights as an Associate Member)

**New licensees** are now eligible for a *one FREE year membership* at CMARC and **Under 18** licensees are *eligible for FREE membership!*

## JOIN TODAY!



Lansing Civil Defense Repeater Association

Lansing Civil Defense Repeater Association

Any Licensed Amateur can become a member of LCDRA for ONLY \$15 a year! Just sign up today and as a member, you'll receive an annual subscription to "The SCOPE", as well as, voting rights in the Association. All Hams under 18 yrs. are *eligible for FREE membership!* LCDRA owns, operates and maintains four Lansing Area repeaters, and while use of the repeaters does NOT require membership in LCDRA or CMARC, your support is **very appreciated!!**

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| Name | Callsign |
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| ZIP | Phone | Lic. Class |
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| ARRL Member? | Birthday | Wedding Anniversary |
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| Year 1 <sup>st</sup> Licensed | Please supply email for SCOPE mailing |
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Full  Associate  New Licensee (1 yr free)  Under 18 (free)

**Full Membership \$15 per calendar year**  
 (must be a licensed Amateur to obtain a Full Membership)  
**Associate Membership \$5 per calendar year.**

Please make your checks payable to "CMARC" and mail to:  
 Jerry Waite KD8GLN  
 2816 Cabot Dr  
 Lansing MI 48911

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| Name | Callsign |
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| ARRL Member? | Birthday | Wedding Anniversary |
|--------------|----------|---------------------|

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|-------------------------------|---------------------------------------|
| Year 1 <sup>st</sup> Licensed | Please supply email for SCOPE mailing |
|-------------------------------|---------------------------------------|

**Membership in LCDRA is \$15.00 per calendar year**  
 (Add a family member for only \$7.50 per person, per year.)  
**LCDRA maintains our four local repeaters**  
**and your support is greatly appreciated!!**  
 (Membership is not required to use our repeaters.)

Please make your checks payable to "LCDRA" And mail to:  
 Julie McLain KB8ZXR  
 4444 Sycamore St. #1Holt, MI 48842

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

Central Michigan Amateur Radio Club



# THE SCOPE



Lansing Civil Defense Repeater Association

[centralmiarc.com](http://centralmiarc.com)    Serving Our Community Since 1921    [lcdra.net](http://lcdra.net)

| CMARC                                                                               | ARPSA                                                                               | LCDRA                                                                                 |
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