



# THE SCOPE



## Lansing Civil Defense Repeater Association

centralmiarc.com

Serving Our Community Since 1921

lcdra.net

### November CMARC Meeting

The next monthly meeting will be on Friday, November 8<sup>th</sup> at 7:30pm in the Salvation Army building, located at 701 W. Jolly Road in Lansing. Our program speaker for November is Mr. Larry Camp/WB8R, the ARRL Great Lakes Division, Michigan Section Manager. Among other things, Larry will give us an overview of the current condition of Amateur Radio in the year 2013 in his "State of the Hobby Address". We look forward to having a great time, so come on out for a very interesting and informative meeting!



(Photo by Chip Locke/WB8ALW)



Tom/WA8WPI up on the tower

### Antenna Work!

A dedicated group of Hams have been working hard the past several weeks to get our club's antennas up and running!

We'll also discuss at the next meeting the status of all their hard work.

Thanks so much for all your time and effort!



Bob/K8RDN and Tom/WA8WPI

### Scoping out THE SCOPE

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## MEETING SCHEDULE

GROUP	CMARC 	ARPSC 	LCDRA 
<b>DATE</b>	11/08/13	11/18/13	01/16/14
<b>TIME</b>	7:30 P.M.	7:00 P.M.	7:00 P.M.
<b>LOCATION</b>	SALVATION ARMY	FIRE STATION # 8	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>

### November

#### Birthdays

11/1 DANIEL BEUCHERT/WX8MOJ  
 11/10 LEWIS ELLWANGER/KD8RSI  
 11/15 BILL WING/W2PMH  
 11/15 JAMES MILLER, JR./KD8QZX  
 11/18 ROGER BARNHILL/AB8RX  
 11/20 ARNOLD McCARDELL/W2CWO  
 11/22 MIJIB ABBASI/KD8RAH  
 11/24 BERNARD GAFFNEY, JR./W8BFG  
 11/24 DONALD TILLITSON/WB8NUS

#### Anniversaries

11/1 DOUGLAS GOODRICH/N8ELL  
 11/9 JIM/KC8QWH AND GINNY/KD8HPG  
 HANNAHS  
 11/18 JIMMY/KD8IWQ AND LINDA DUNAHOO  
 11/23 GREGG MULER/WB8LZG

### December

#### Birthdays

12/1 BOB LEDER/WJ8D  
 12/8 WILLIAM SMITH/KD8INX  
 12/12 TOM ROMANAUSKI/W8LKE  
 12/12 BOB MARKLEWITZ/K8NNZ  
 12/13 WILLIAM TORRENCE/KC8ALL  
 12/27 MICHAEL BOENSCH/KD8VHT

#### Anniversaries

12/6 RYAN STEVENSON/KD8TSI  
 12/8 JERRY/KD8GLN AND SHARON/KD8HHK  
 WAITE  
 12/12 MATT/W8MAT AND JENNIFER WARNCKE  
 12/12 DAVE LEISMAN/W8QW  
 12/18 RALPH CHAPMAN/WA8NHD  
 12/18 BOB/K8RDN AND ANN BERGER  
 12/18 GREG MARTIN/K8FSQ  
 12/27 CHARLES/N8DWI AND NANCY STAHL  
 12/28 JAMES HARVEY/KA8DDQ  
 12/28 ARNOLD McCARDELL/W2CWO  
 12/31 JAN BRADFIELD/KC8BFK  
 12/31 DAN/WX8MOJ AND DAWN/KD8MWA  
 BEUCHERT

### ***RAD's COFFEE BREAK***

Looking for something FUN to do on a Saturday night with your fellow Hams and their families? Well, "RAD's Coffee Break" is the place to be! It's a "family friendly", Ham Radio-related get-together that's fun for EVERYBODY. "RAD's" has met **EVERY Saturday night** without fail for over **SIX YEARS** (since **June 30, 2007**) and has seen as many as 55 in attendance!! Guests begin arriving around 7pm at Denny's Restaurant, 7330 W. Saginaw Highway on the West side of Lansing. It's just down the road from the Lansing Mall (out by Horrock's Farm Market), and you can easily get there by taking I-96 Exit 93B. An all-night commitment is NOT required—you can come and go as you please—and you DON'T have to belong to a particular Club to join in on the fun, either. As Don, KB8 "RAD" likes to say, "If you're a HAM, related to a HAM, wanna be a HAM, or just like to eat HAM...EVERYONE'S welcome at RAD's Coffee Break!!"



**YOU ARE ALL CORDIALLY INVITED TO JOIN US FOR  
CMARC'S ANNUAL 2013 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 13, 2012  
At 7:30 p.m.**

**WHAT DO I NEED TO BRING?**

**Because our December meeting is usually the best attended meeting of the year, we're asking for everyone to bring something to contribute towards the Christmas Potluck so there will be plenty to go around. You can bring your favorite Appetizer, Casserole, Salad, Holiday dessert, Christmas Candies or non-alcoholic beverage. And Crock pots are always welcome because they always have something really delicious inside like Baked beans, Scalloped potatoes and ham, Holiday meatballs, Chili, or Little Smokies, just to mention a few!!**

**I'll have a sign-up sheet at the November meeting, so you can write down what you're planning to bring. If you're not sure right now, you can always call me throughout the month of November and then I can let you know what has and hasn't been signed up for yet. We hope you will all be able to join us at the 2013 CMARC Christmas Potluck on Friday, December 13th at 7:30 pm! See You then!!**

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





## **NOVEMBER TEA TIME LADIES' DAYS**

November 9th – Ginny/KD8HPG and Jim/KC8QWH Hannahs' 45th Anniversary!!



## **NOVEMBER & DECEMBER'S LADIES' TEA TIME LUNCHEON**



Just a quick reminder that we will NOT be having a November Luncheon!! We WILL, however, be having our "Ladies Tea Time Christmas Party" on Saturday, December 7th starting at 11am until approximately 4 pm at the Grovenburg United Methodist Church, located at 1368 Grovenburg Road in Holt. Please bring an Appetizer for the Potluck dinner, along with TEN wrapped gifts (\$1.00-each) for the Bingo prizes and your wrapped \$5 gift to exchange (remember NO Lottery tickets!). Also remember to bring \$3.00 to help pay for the rental of the church. Please RSVP Ladies Luncheon Coordinator Julie McLain/KB8ZXR by Thursday, December 5th. You can call me at: (517) 694-0812 or email me at: [KB8ZXR@aol.com](mailto:KB8ZXR@aol.com)

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



Please join the "Ladies Tea Time Net" every Tuesday evening at 7pm on the 145.39 repeater (100 Hz PL). This is an informal Net and the main purpose for our existence is to encourage our Lady Hams to use their licenses!! After all, since you worked so hard to earn them, why let your licenses get dusty and your communication skills get rusty?! You just never know when you might need to use them! Besides, it's fun getting out on the air and talking with other Ladies! We even encourage un-licensed Ladies to join us by checking in "Third Party" on their friend or husband's Callsign. And don't worry Gentlemen, YOU even have a couple of opportunities during the Net to check in, too!

You may be surprised to hear that this Net isn't just for those Hams in range of this repeater, either. Because our Net is connected via NE8K to the \*DoDropIn\* EchoLink Conference Server (ID # 355800), our "Ladies Tea Time Net" is heard around the world, as well! And we've had fun talking to Lady Hams in Japan, British Columbia, Florida, New Hampshire, Idaho and New Jersey, just to mention a few. And we've also talked with Gentlemen Hams from Belgium, Newfoundland, Hawaii and other parts of the world! So, pour yourself a nice cup of tea, pick 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](mailto:KB8ZXR@aol.com)



YOU ARE CORDIALLY INVITED TO JOIN  
US FOR OUR 2013 LADIES TEA  
TIME CHRISTMAS LUNCHEON



**The special  
“Christmas Party”  
Edition of the Ladies  
Tea Time Luncheon will be from  
11 AM until approximately 4 PM on  
Saturday, December 7th at Grovenburg  
United Methodist Church, 1368 Grovenburg  
Road, in Holt. We will be having a Potluck for dinner,  
Exchanging gifts, and playing Bingo. Please bring ten  
\$1 wrapped gifts for the Bingo prizes, one wrapped \$5 gift to  
Exchange (NO Lottery tickets, PLEASE!!), plus an Appetizer.  
Please RSVP Ladies Luncheon Coordinator Julie  
McLain/KB8ZXR**

**R.S.V.P. by Thur, Dec. 5th.  
PHONE: (517) 694-0812 or  
EMAIL: KB8ZXR@aol.com**



## I've got a QUESTION...or should I say...QUESTION POOL??

Hi, this is Julie KB8ZXR and I've been thinking of doing a new monthly article for the SCOPE called, "Practice Amateur Radio Exams", just to give us all an example of what is required to test these days. But, with all that I already have going on...I will ONLY do this if you REALLY want to see it!! So, please let me know, because if I DON'T hear from you, I WON'T be doing this article! You can call me at (517) 694-0812, email me at KB8ZXR@aol.com, or just tell me when you see me, but PLEASE LET ME KNOW!! Now, have fun and NO peeking at the answers until you're through!! 73, Julie KB8ZXR

### "PRACTICE AMATEUR RADIO EXAMS"

#### • TECHNICIAN CLASS 2010 POOL

**1. What is a good reason not to use a 'rubber duck' antenna inside your car? (Question T9A07)**

- A. Signals can be significantly weaker than when it is outside of the vehicle.
- B. It might cause your radio to overheat.
- C. The SWR might decrease, decreasing the signal strength.
- D. All of these choices are correct.

**2. What device increases the low-power output from a handheld transceiver? (Question T7A10)**

- A. A voltage divider
- B. An impedance network
- C. A voltage regulator
- D. An RF power amplifier

**3. What is the approximate bandwidth of a VHF repeater FM phone signal? (Question T8A09)**

- A. Between 50 and 125 kHz
- B. Between 5 and 15 kHz
- C. Less than 500 Hz
- D. About 150 kHz

#### • GENERAL CLASS 2011 POOL

**1. Which of the following might be a use for a field strength meter? (Question G4B07)**

- A. Close-in radio direction-finding
- B. A modulation monitor for a frequency or phase modulation transmitter
- C. A keying indicator for a RTTY or packet transmitter
- D. An over-modulation indicator for a SSB transmitter

**2. Which of the following is an effect of over-modulation? (Question G8A08)**

- A. Insufficient bandwidth
- B. Excessive bandwidth
- C. Frequency drift
- D. Insufficient audio

**3. Which of the following could be a cause of interference covering a wide range of frequencies? (Question G4C02)**

- A. The use of horizontal rather than vertical antennas
- B. Arcing at a poor electrical connection
- C. Lack of rectification of the transmitter's signal in power conductors
- D. Not using a balun or line isolator to feed balanced antennas

• **EXTRA CLASS 2012 POOL**

**1. What might be the cause of a loud roaring or buzzing AC line interference that comes and goes at intervals? (Question E4E13)**

- A. Arcing contacts in a thermostatically controlled device
- B. A defective doorbell or doorbell transformer inside a nearby residence
- C. A malfunctioning illuminated advertising display
- D. All of these choices are correct

**2. What is the power factor of an RL circuit having a 45 degree phase angle between the voltage and the current? (Question E5D15)**

- A. 0.866
- B. 0.5
- C. 1.0
- D. 0.707

**3. Which of the following geographic descriptions approximately describes "Line A"? (Question E1F04)**

- A. A line roughly parallel to and west of the US Atlantic coastline
- B. A line roughly parallel to and south of the US-Canadian border
- C. A line roughly parallel to and east of the US Pacific coastline
- D. A line roughly parallel to and north of the US-Mexican border and Gulf coastline

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

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

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## **HAMFESTS**

Date: **November 16 - 17** (Sat. & Sun.) - Fort Wayne Hamfest (ARRL Indiana State Convention)

Location: Allen County War Memorial Coliseum in Fort Wayne, Indiana

Sponsor: Allen County Amateur Radio Technical Society

Website: [www.fortwaynehamfest.com](http://www.fortwaynehamfest.com)

Date: **December 8** (Sun.) - LCARC Hamfest

Location: L'Anse Creuse High School in Harrison Twp, Michigan

Sponsor: L'Anse Creuse Amateur Radio Club

Website: [www.qsl.net/n8lc](http://www.qsl.net/n8lc)



SINCE 1921



## **CMARC BOARD MEETING October 11, 2013**

President Dan Beuchert/WX8MOJ called the meeting to order at 7:03 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, Under 22 Director Matt Miller/KD8OOS.

- Silent keys: No silent keys.
- The antenna work is moving forward. No need to buy anything. Should be ready by the time sweepstakes rolls around again, in a few weeks.
- Gregg Mulder/WB8LZG had surgery on his shoulder. Was afraid it was going to be cancer, but thankfully, it is not.
- 501c3-best ways to move forward.
- A copy of our insurance papers will be forwarded to the Salvation Army.

The meeting was adjourned by 7:29 pm.

Respectfully submitted,  
Jane Hosford/KC8FSK-Secretary

## **CMARC MEETING MINUTES October 11, 2013**

President Dan Beuchert/WX8MOJ called the meeting to order at 7:35 pm and welcomed both members and visitors attending tonight.

Moment of silence for silent keys.

Silent key report:  
There were no silent keys.

ATTENDANCE:  
There were 32 people in attendance. Visitors included Ben Barker/WD8OVL, John Kuchar/KD8TMW, Linda Dunahoo and Mary Tillitson.

NEW LICENSES, UPGRADES and VANITY CALLS:  
There we no new license, upgrades or vanity calls.



### CARDS AND FLOWERS REPORT:

- A get well card was sent to Gregg Mulder/WB8LZG. Gregg is doing well after his surgery.
- Don Cote/KD8BD is doing well after getting a pump installed for pain medicine. It has to be adjusted every few weeks until it's set to where Don and the Drs. are happy.
- John Hosford/KC8QZB is doing well after his bout in the hospital with an infection.

### INTERESTING DX CONTACTS:

Ken Kruger/W8AAX.

### OLD BUSINESS:

- Jim/KC8QWH made a motion to accept the secretary's minutes as provided in the October Scope. Seconded by Ron/WD8BCS and approved.
- Don/KB8RAD made a motion to accept the treasurer's report as provided in the October Scope. Seconded by John/KD8NNQ and approved.
- The next LCDRA meeting is on the 17<sup>th</sup> @ 7:00 p.m. at Fire Station Number 8,
- Non-Profit status: Need to check the constitution. Bill Cote'/WD8NYW, the Club Historian, will go through the Constitution.
- Antenna work: 2-meter tri-bander has been saved. Wire antenna needs to be purchased. The antenna would should be finished by the time sweepstakes begins in a few weeks. Anyone interested can help work on the antenna tomorrow.

### Please pay your dues:

CMARC dues to Jerry/KD8GLN and LCDRA dues to Julie/KB8ZXR.

NOTE: If you want your birthday and/or anniversary announced in the Scope please fill out the membership form in the Scope or online.

### NEW BUSINESS:

- Tom/WA8WPI announced that there will be VE testing tomorrow in Charlotte.
- There was a ballot vote to accept email absentee voting. This passed.
- There has been an email account set up for absentee voting. The website is: [cmarcvoting@gmail.com](mailto:cmarcvoting@gmail.com) The deadline for email voting is midnight the night before the day of voting.
- Jim/KC8QWH announced that more help is needed for the Veteran's Day Parade on November 11, 2013 in Mason. He got the volunteers he needed at meeting.
- The next ARPSC meeting is on the 21st.

UNDER 22 REPORT: Nothing to report.

50/50 DRAWING: John/KD6KCZ won \$13.00 in the 50/50 drawing and donated it to the Club for Hamfest. Thanks John..

### BREAK:

A motion to adjourn for break was made by Ron/WD8BCS, seconded by Jim/KC8QWH and approved.

(Sec. Note: Thank you to all who helped with the goodies—your contributions are always GREATLY appreciated!)

**MAIN PROGRAM AND/OR SPEAKER:**

Matt Miller/KD8OOS and Randy Williams/KD8MOK. They gave us an overview of Broadband-Hamnet (formerly called HSMM-MESH) which they used at Field Day this year. Broadband-Hamnet is a stand alone wireless network that can be connected to the internet and is intended for Amateur Radio use and passing Ham Radio traffic. Some ways it can be used are EchoLink, Winlink/RMS Packet, remote control of radios/equipment, video relay/ VoLP connections, APRS and more. For more information about Broadband-Hamnet/HSMM-Mesh, you can check out their website at [www.hsmm-mesh.org](http://www.hsmm-mesh.org).

Thanks Matt and Randy for an interesting program.

Ron/WD8BCS made a motion to adjourn, seconded by Don/KB8RAD and approved.

Meeting was adjourned at 9:25 pm.

Respectfully submitted,  
Jane Hosford/KC8FSK-Secretary

October 2013 Treasurer's Report	
Primary Share Acct. (Humphreys Fund)	\$1089.97
Business Checking	\$3292.18
Net Worth	\$4382.16
Youth Fund Balance* (as of 04/2013)	\$253.16
Building Fund (Club Station) <i>separate from CMARC Funds</i>	\$9.09

Submitted,  
*Jerry Waite/KD8GLN - CMARC Treasurer*

## VE TESTING SESSIONS

### 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.** 12/05/13

**Saturday @ 11:00 a.m.** 11/09/13

### 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.** 12/14/13

### 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.** 12/26/13

## NETS in the Greater Lansing Area

**"The Breakfast Club Net"** meets EVERY weekday morning from 7am to 1:30pm on the 145.39 repeater (PL 100 Hz), with Net Coordinator Don McLain/KB8RAD. This Net has been around now for over THREE AND A HALF YEARS (since September 24, 2009) and averages around 96+ check-ins per morning, but the NEW all-time record is 117 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! We are already 244 members strong and we'd love to have YOU join us, 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 (Winter hours) 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. Also, you can click on [www.ab8zl.com](http://www.ab8zl.com) during the Net to see the photos being sent.

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

The **"Ladies Tea Time Net"** meets every Tuesday night 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's been around now 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 and say "Hello!"

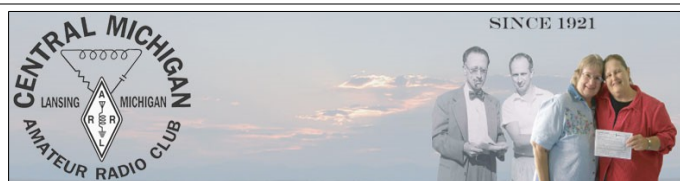
The **"Mid-Michigan Information Net"** meets every Wednesday night at 7pm on the 145.39 repeater (PL 100 Hz), with Net Coordinator Don McLain/KB8RAD. This Net has been around now since November 11, 2009 and is still growing!! Be sure to join Don for a time of FUN, FELLOWSHIP, and helpful INFORMATION!!

The **"Michigan Radio Amateur Youth Net" (MRAY)**, meets every Thursday night at 7pm on the 145.39 repeater (PL 100 Hz), with Net Coordinator Matt Miller/KD8OOS. In addition, EchoLink is available by searching for "KD8MJJ-R", "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:		
ub Contact:	Donald McLain-KB8RAD	Ph: (517) 694-0812
Building Coord.:	Dan Beuchert-WX8MOJ	Ph: (517) 604-1379
QSL/ Awards Mgr:	Don DeFeyerter-KC8CY	
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 7:30pm. Board Meeting begins at 7:00pm.  
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@arll.net">wd8bcs@arll.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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Address	City	State
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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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Address	City	State
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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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**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

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