



THE SCOPE



Lansing Civil Defense Repeater Association

centralmiarc.com

Serving Our Community Since 1921

lcdra.net

CMARC MEETING

The next monthly meeting of the "Central Michigan Amateur Radio Club" will be on Friday, [October 10th](#) at 7:00 PM in the Salvation Army South Corps, located at 701 W. Jolly Road in Lansing.

Our speaker is going to be John Mc Donough/WB8RCR of the State Emergency Operations Center (SEOC). John is the Michigan Section Emergency Coordinator, the State RACES Officer, the Great Lakes Division Representative to the Emergency Communications Advisory Committee and the Michigan Section Traffic Manager.

As always, we are SURE to have good food, good fun and good fellowship, so come on out to the October meeting for a very enlightening program! For more information about this meeting, you can check out our website at www.centralmiarc.com or consult our Club Contact Don McLain/KB8RAD at (517) 694-0812 or KB8RAD@arrl.net. See you ALL there!!

Technician Class

I am happy to announce that we have organized another Technician License Amateur Radio Class. This class will be held from 6:30pm to 8:30pm each Weds from October 15th until December 17th at Lansing Fire Station #44 (Formerly FS #4) on Miller Road. This training will include members of our local CERT team and is open to anyone else interested!

Please forward this on to anyone you know who may be in need of a Tech license class and have them get a hold of me at wx8moj@arrl.net (that goes to my ruskirebel@hotmail.com inbox).

Here's to getting another group of people interested in and better prepared for amateur radio!

73, Daniel Beuchert – WX8MOJ /CMARC President

Scoping out THE SCOPE




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MEETING SCHEDULE

GROUP	CMARC 	ARPCSC 	LCDRA 
DATE	10/10/14	10/20/14	10/16/14
TIME	7:00 P.M.	7:00 P.M.	7:00 P.M.
LOCATION	SALVATION ARMY	MASON EOC	FIRE STATION # 8
WEBSITE	WWW.CENTRALMIARC.COM/	WWW.LANSINGARPCSC.COM/	WWW.LCDRA.NET/

OCTOBER

Birthdays

10/02 DEREK FLORY/KD8VRS
 10/13 JANE HOSFORD/KC8FSK
 10/20 MATT WARNCHE/W8MAT

Anniversaries

10/04 MIKE HOLCOMB/WA8KZY
 10/26 JOSEPH/N8VYS & PAMELA/KB8PSF
 DENOMME
 10/27 WILLIAM SMITH/KD8ZFR
 10/31 ALAN SHAW/WB8YOX

NOVEMBER

Birthdays

11/01 DANIEL BEUCHERT/WX8MOJ
 11/03 ELIZABETH JOHNSON/KD8HRH
 11/08 MICHAEL MATHER/KA8PME
 11/09 MARK CARTER/KD8YUY
 11/15 MATTHEW MILLER/KD8OOS
 11/15 BEVERLEY STONER/K8ZJU
 11/16 STEPHEN BINNS/KD8WVG
 11/18 LINDA DUNAHOO
 11/24 BERNARD GAFFNEY, JR/W8BFG
 11/24 DONALD TILLITSON/WB8NUS
 11/25 DANIEL DEMBINSKI/KD8YDE

Anniversaries

11/01 DOUGLAS GOODRICH/N8ECL
 11/08 ERV/W8ERV AND LAURIE BATES
 11/09 JIM/KC8QWH AND GINNY/KD8HPG
 HANNAHS
 11/26 JIMMY/KD8IWQ AND LINDA
 DUNAHOO



Bill Torrence – KC8ALL, SK

We've lost another member of our HAM community. Bill Torrence/ KC8ALL passed away unexpectedly on Monday September 15th.

A memorial service was held at 1:00 P.M. on Saturday, October 4, 2014 at Gorsline Runciman Funeral Home.

Please see Obituary for more information: <http://tinyurl.com/WTorrence>

What's My Sign?

By: Julie McLain KB8ZXR

I was born on November 25, 1964 in South Bend, Indiana and am the youngest of seven. Two of my brothers have passed away, both from cancer. My brother, Ted was in the Navy and Edward was recruited by North Dakota for football, however, he chose to become a professional bodybuilder. My sisters all married outstanding men and have great families of their own. My Mother was a homemaker and took excellent care of my siblings and me. My Father worked in manufacturing plants ranging from Studebaker to Roth Plating. He also served in the U.S. Navy.

Later, after he went to college, he worked as a designer for "American Motors General" designing postal and military trucks, jeeps, and his best design...the Humvee. LTV (Ling-Temco-Vought) became interested in the Humvee and my father, and purchased "AM General" making it a wholly owned subsidiary of the LTV Aerospace and Defense Company. Dad furthered his career with more college and 4 degrees, which I didn't find out about until his passing. I remember the day the Joint Chiefs of Staff and Military leaders got to view the Humvee. That's where I met the Secretary of Defense, Casper Weinberger, and where I experienced the biggest thrill of my teenage life.

Two of my favorite memories of growing up are of working our bee hives, and when we would go fishing. I graduated from Berrien Springs High School in Berrien Springs, Michigan. I went on to attend 6 years of college at South Western Michigan College and also Lake Michigan College. I studied engineering, tool and die, along with metallurgy and graduated in 1996 with a degree in Engineering. I served for 6 years in the Michigan National Guard (2½ years were during high school), and after college I went into the Navy. I earned the rank of E6 or Petty Officer 1st Class. I traveled all around the world, but the place I liked the most was Alaska. I am now medically retired from the Navy. My high school sweetheart Julie and I were married for 24 years. I am currently married to the love of my life, Victoria Ann.

My interest in Amateur Radio was a natural progression from my love of CB. However, it was just this past March, at a testing session sponsored by the Ingham County VE Group that I took and passed my Technician Exam. I am currently studying to get my General License upgrade and so far, I'm having a blast with my new Hobby! My shack right now consists of a shelf with 2 hand-held radios (an ICOM and a Baofeng) sitting on it. I also have a TYT 2-meter mobile in my car.

I'm happy with 2-meters for now and have enjoyed participating in SKYWARN this year. I'm also interested in DXing and maybe a little later (and with a little more time), I may be interested in learning Morse Code. I currently belong to the Central Michigan Amateur Radio Club and the Lansing Civil Defense Repeater Association. In my spare time I love to be in the outdoors fishing and hunting. I also build and repair fishing poles and am a member of the Looking Glass River Sportsmen's Club.

When asked if I had any words of wisdom to pass along, I responded by saying, "Never Quit Learning!!" There, now that we have become a little better acquainted, "What's My Sign?" My Callsign is KD8YDE and my name is Daniel Dembinski.



ARRL
VEC

“ARRL PRACTICE AMATEUR RADIO EXAMS”

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

Technician Class 2014 Pool

1.) Question T0A02 - How does current flowing through the body cause a health hazard?

- A. By heating tissue
B. It disrupts the electrical functions of cells
C. It causes involuntary muscle contractions
D. All of these choices are correct

2.) Question T3C09 - What is generally the best time for long-distance 10 meter band propagation via the F layer?

- A. From shortly after sunset to dawn during periods of low sunspot activity
B. From dawn to shortly after sunset during periods of low sunspot activity
C. From dawn to shortly after sunset during periods of high sunspot activity
D. From shortly after sunset to dawn during periods of high sunspot activity

3.) Question T1A12 - Which of the following is a permissible use of the Amateur Radio Service?

- A. Providing low-cost communications for start-up businesses
B. Allowing a person to conduct radio experiments and to communicate with other licensed hams around the world
C. Providing a way for amateur radio operators to earn additional income by using their stations to pass messages
D. Broadcasting music and videos to friends

General Class 2011 Pool

1.) Question G2E07 - What does the abbreviation 'RTTY' stand for?

- A. A general call to all digital stations
B. Returning to you
C. Repeater transmission type
D. Radioteletype

2.) Question G0A01 - What is one way that RF energy can affect human body tissue?

- A. It causes the blood count to reach a dangerously low level
B. It causes radiation poisoning
C. It cools body tissue
D. It heats body tissue

3.) Question G2B10 - When may the FCC restrict normal frequency operations of amateur stations participating in RACES?

- A. Only when all amateur stations are instructed to stop transmitting
B. When they declare a temporary state of communication emergency
C. When they seize your equipment for use in disaster communications
D. When the President's War Emergency Powers have been invoked

Extra Class 2012 Pool

1.) Question E4E12 - What is one disadvantage of using some types of automatic DSP notch-filters when attempting to copy CW signals?

- A. The DSP filter can remove the desired signal at the same time as it removes interfering signals
- B. Ringing in the DSP filter will completely remove the spaces between the CW characters
- C. Received CW signals will appear to be modulated at the DSP clock frequency
- D. Any nearby signal passing through the DSP system will overwhelm the desired signal

2.) Question E2B01 - How many times per second is a new frame transmitted in a fast-scan (NTSC) television system?

- A. 60
- B. 90
- C. 120
- D. 30

3.) Question E5B10 - What is the relationship between the current through an inductor and the voltage across an inductor?

- A. Voltage and current are 180 degrees out of phase
- B. Voltage leads current by 90 degrees
- C. Current leads voltage by 90 degrees
- D. Voltage and current are in phase

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

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

October 2014

HAMFESTS

10/18/2014 - [Muskegon Color Tour Hamfest](#)

Location: Muskegon, MI
Sponsor: Muskegon County Emergency Communication Services
Website: www.muskegoncolortourhamfest.com

10/19/2014 - [Kalamazoo HamFest 2014](#)

Location: Kalamazoo, MI
Sponsor: Kalamazoo Amateur Radio Club & Southwest Michigan Amateur Radio Team
Website: <http://kalamazoohamfest.com>

10/26/2014 - [USECA Hamfest](#)

Location: Madison Heights, MI
Sponsor: USECA Amateur Radio Club
Website: www.usecaarc.com

11/15-16/2014 - [Fort Wayne Hamfest & Computer Expo \(Indiana ARRL State Convention\)](#)

Location: Fort Wayne, IN
Sponsor: Allen County Amateur Radio Technical Society
Website: www.fortwaynehamfest.com

12/07/2014 - [LCARC Hamfest/Swap](#)

Location: Harrison Twp., MI
Sponsor: L'Anse Creuse Amateur Radio Club
Website: www.qsl.net/n8lc



OCTOBER TEA TIME LADIES' DAYS
October 13 – Jane Hosford KC8FSK's Birthday!!

LADIES TEA TIME LUNCHEON

Our October Luncheon will be held on Saturday, October 18th at 12:30pm and this time we'll be going to the "Cracker Barrel Old Country Store" located at 608 Commercial Drive in Lansing, (near I-96 and W. Saginaw out in front of Wal-Mart). I know you won't want to miss out on this really nice time, because we all love to browse around Cracker Barrel, especially at this time of year, and maybe we'll even find something we just can't live without!! So, please be sure to mark your calendar so you won't forget, because I would love to see you all there! Please remember to RSVP by Friday, October 17th so I can have your spot reserved!

Just a quick reminder, we WILL NOT have a Luncheon in November as we will all be busy preparing for our Thanksgiving Holiday. However, we WILL be having our annual "Ladies Tea Time Christmas Party" on Saturday, December 6th at 11 am, so be sure to look for more details in November...in the SCOPE and on the Ladies Page of CMARC's Website!

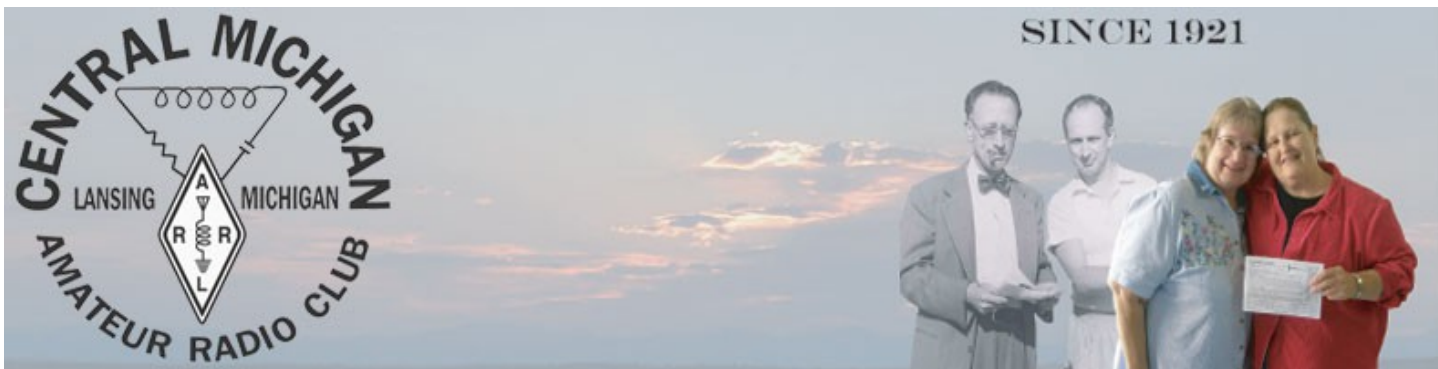
~Julie McLain, KB8ZXR~

Ladies Tea Time Net & Luncheon Coordinator
(517) 694-0812 or KB8ZXR@aol.com



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... 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!! 73, Julie KB8ZXR



CMARC BOARD MEETING September 12, 2014

President Dan Beuchert/WX8MOJ called the meeting to order at 6:35 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 Sam Fitzgerald/N8FPR.

- **Silent Keys:** Don Rickerd/W8BQD.
- **Tower metal:** Bob/K8RDN and Gregg/WB8LZG have been working on it.
- Make sure the \$500. donation person gets a lifetime membership.
- **SATERN:** Saturday, August 30th - EDS training at South Corps. Eight people from CMARC attended along with four people from the Salvation Army.
- **Member's Roster:** Dan/KD8YDE has volunteered to make a Club directory and brought in a sample form. Members can put in as much information as they want to.
- Welcome Sam/N8FPR to the under 22 position.
- **Tech Class:** possibly have an eight week class before Christmas.
- Post meeting dates on the website for the year.
- Post by-laws on the website.
- Change the CMARC and LCDRA forms to be separate on the website.

Motion to adjourn made by John/KD8NNQ, seconded by Don/KB8RAD and approved. Meeting adjourned at 7:00pm.

Respectfully submitted,
Jane Hosford/KC8FSK-Secretary

CMARC MEETING MINUTES September 12, 2014

President Dan Beuchert/WX8MOJ called the meeting to order at 7:10 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.

Silent key report: Don Rickerd/W8BQD.

A moment of silence for our silent keys.

ATTENDANCE: There were 45 people in attendance. Visitors included: Ben Barker/WD8OVL, Mary Tillitson, Leon Langridge, Gloria Cote, Rog Bauer, John Kuchar, Ray Jenks/KD8ZDX, Mark Carter/KD8YUY and Phillip Woodard.

NEW LICENSES, UPGRADES and VANITY CALLS: None.

CARDS AND FLOWERS REPORT: Cards were sent to Richard Stortz/K8JNZ and to the family of Don Rickerd/W8BQD.

INTERESTING DX CONTACTS: Israel.

OLD BUSINESS:

- A motion to accept the August Secretary's Report as printed in the August SCOPE was made by Jim/KC8QWH, seconded by Ted/WA8MFQ, and approved.
- A motion to accept the August Treasurer's report as printed in the August SCOPE was made by Ted/WA8NFQ, seconded by Don/KB8RAD and approved.
- Volunteers are needed for an upcoming event: September 21, 2014 Bike for Hospice - start and end at Sparrow Hospital in St Johns, email John Tyree-jtyree@me.com. September 21, 2014 Hike for Hospice at Granger Meadow Park in DeWitt, email Don Tillitson wb8nus@arrl.net.
- VE testing tomorrow in Mason.
- EDS Training, Saturday August 30th at South Corps. Eight people from CMARC attended along with four people from the Salvation Army.
- Dan/KD8YDE volunteered to do a Club directory and brought a sample form for people to look at. There will be forms for people to fill out at next months meeting. You can include as much information as you want on the form. Possibly have a fillable form online. Information will only be available to Club members.
- Possibly have a tech class before Christmas for eight weeks. Probably starting mid October.
- Please pay your dues. CMARC dues to Jerry/KD8GLN and LCDRA dues to Julie/KB8ZXR.
- 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.
- Welcome Sam/N8FPR as the new under 22 director.

NEW BUSINESS:

SATERN International Net Day September 13, 2014 @1600z - September 14, 2014 @1600z.
modes: 14.265 MHzSSB, 7.265 MHz SSB, 3.977 MHzSSB

- Dave/KF8WS and Shirley/N7UPY Birdsley from B & B Embroidery have a special deal going on now. If you buy something from their website www.hamthreads.com with your Club logo on it you can get a 20% discount at check out. If you place an order for two items you can get a free tee or free hat at checkout.

UNDER 22 REPORT: Nothing to report.

50/50 DRAWING: Jim/KA8DDQ won \$25.00.

Motion to adjourn for break made by Jim/KC8QWH seconded by John/KC8QZB and approved.

MAIN PROGRAM AND/OR SPEAKER:

John Imeson/N8JI and Jan Bradfield/KC8BFK presented "Radio Health and Welfare Check Night". They were set up inside and outside to check HT's and mobile installations.

With all business concluded, the meeting was adjourned at 9:00 pm.

Respectfully submitted,
Jane Hosford/KC8FSK-Secretary

September 2014 Treasurer's Report	
Primary Share Acct. (Humphreys Fund)	\$1085.95
Business Checking	\$4110.64
Net Worth	\$5196.59
Youth Fund Balance* (as of 04/2013)	\$253.36
Building Fund (Club Station)	\$9.09
Field Day	\$372.09
<i>separate from CMARC Funds</i>	
Submitted,	
<i>Jerry Waite/KD8GLN - CMARC Treasurer</i>	

VE TESTING SESSIONS

Ingham County VE Group

Location: Ingham County Sheriff's Department, Mason
Contact: Don McLain/KB8RAD (517) 694-0812 KB8RAD@ARRL.NET
Thursday @ 7:00 p.m. December 4
Saturday @ 11:00 a.m. November 8th

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
Saturday at 12:00 p.m. October 11, 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
Thursday@ 7:00 p.m. October 23, December 18

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

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!”

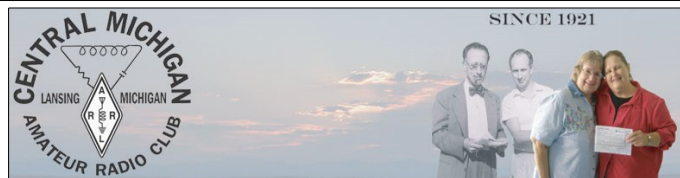
The “**Mid-Michigan Information & Trader’s Net**” meets every Wednesday evening at 7:00pm on the 145.39 repeater (PL 100 Hz), with Net Coordinator Don McLain/KB8RAD. This Net has been around now for over FOUR YEARS (since November 11, 2009) and is still growing!! Be sure to join Don for a time of FUN, 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 ****
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	wd8bcs@arrl.net
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: drb@msu.edu

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!!**

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 st 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

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 st 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

centralmiarc.com Serving Our Community Since 1921 lcdra.net

CMARC	ARPSA	LCDRA
		
WWW.CENTRALMIARC.COM/	WWW.LANSINGARPSA.COM/	WWW.LCDRA.NET