



THE SCOPE



Lansing Civil Defense Repeater Association

Proposed Changes

You might have already seen the email or received the mailing on proposed by-law changes for the club. Enclosed on page 3 of this issue of The Scope you will also find a copy of the letter detailing those changes.

We hope to see you this Friday, October 11th to cast your vote!

ARPSC MEETING

The next monthly meeting of the “Lansing Area/Ingham County Amateur Radio Public Service Corps” will be on Monday, October 21st at 7pm. This time we'll be meeting at the Ingham County Sheriff's Office in Mason. As always, membership in the ARPSC is NOT required for attendance, so please feel free to join us at any session—and bring along a friend! For the dates and locations of future meetings please check out our website at www.lansingarpsc.com/.

LCDRA MEETING

The next quarterly meeting of the “Lansing Civil Defense Repeater Association” will be at 7pm on Thursday, October 17th at Lansing Fire Station #8, located on the corner of Marshall Street and Grand River Avenue in Lansing. If you're interested in what's REALLY going on with the repeaters, come on out to the meeting where you can get your information “straight from the horse's mouth”.

Scoping out THE SCOPE

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MEETING SCHEDULE

GROUP	CMARC 	ARPSC 	LCDRA 
DATE	10/11/13	10/21/13	10/17/13
TIME	7:30 P.M.	7:00 P.M.	7:00 P.M.
LOCATION	SALVATION ARMY	MASON EOC	FIRE STATION # 8
WEBSITE	WWW.CENTRALMIARC.COM/	WWW.LANSINGARPSC.COM/	WWW.LCDRA.NET/

October	November
<p style="color: #C85135;">Birthdays</p> <p>10/13 JANE HOSFORD/KCKFSK 10/26 JOSEPH DENOMME/N8VYS</p> <p style="color: #C85135;">Anniversaries</p> <p>10/14 ROBERT MANN/WD80EV 10/17 EDWARD HUDE/WA8QJE</p>	<p style="color: #C85135;">Birthdays</p> <p>11/1 DANIEL BEUCHERT/WX8MOJ 11/15 WILLIAM WING/W2PMH 11/18 ROGER BARNHILL/AB8RX 11/24 DONALD TILLITSON/WB8NUS 11/24 BERNARD GAFFNEY, JR/W8BFG</p> <p style="color: #C85135;">Anniversaries</p> <p>11/9 JIM/KC8QWH & GINNY/KD8HPG HANNAHS 11/18 JIMMY DUNAHOO/KD8IWQ</p>

Greetings CMARC Family and Friends,

The October meeting of the “Central Michigan Amateur Radio Club” will be on Friday, October 11th at 7:30pm in the Salvation Army building, located at 701 W. Jolly Road in Lansing. Our program speakers will be two of our own, Matt Miller/KD8OOS and Randy Williams/KD8MOK. They will give 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, VoIP connections, APRS and more! For more information about Broadband-Hamnet™/HSMM-Mesh™, you can check out their website at www.hsmm-mesh.org. And for more information about the October Club meeting, you can check our website at www.centralmiarc.com or just get a hold of Club contact Don McLain/KB8RAD at (517) 694-0812 or KB8RAD@arri.net.

73,
Donald McLain-KB8RAD
CMARC Vice President

CMARC Members,

At the September 13 CMARC meeting, there was discussion about bringing a vote to change the By-Laws.

The proposed change would be to Article V of the By-Laws.

Article V currently reads as follows:

Section 1- At any regular or special meeting of The Corporation, held prior to the annual meeting, full members of The Corporation shall nominate full members for election to the Board of Directors.

Section 2-Any full member of The Corporation may, at any annual meeting, nominate full member candidates for the Board of Directors.

The proposed change is to close nominations for the Board of Directors at the meeting prior to the annual meeting. This would close nominations at the November CMARC meeting (at the regular meeting date of the second Friday). The rationale for this change, as discussed at the September 13th CMARC meeting, included allowing time for club members to consider candidates for the Board of Directors for an entire month before the annual meeting. This would also allow for members not able to make it to the annual meeting to cast a vote (only accepting the email on file for that member) for who they want on the Board of Directors.

The change in By-Laws would affect Section 2 of Article V Nomination for Board of Directors, as this allows for nomination at the annual meeting. The Proposal would accordingly change Section 2 if approved by a majority vote, after discussion, at the next CMARC meeting (October 11, 2013) to:

Section 2-Any full member of The Corporation may, at any regular or special meeting from the beginning of the calendar year until the meeting prior to the annual, nominate full member candidates for the Board of Directors. Nominations for the Board of Directors will be closed at the meeting before the annual.

While all are welcome to attend, only current members may cast a vote for the proposed bylaw changes.

If you want to view CMARC's By-Laws document, it is available online at:

<http://centralmiarc.com/docs/CMARC%20BYLAWS%202007.pdf> and can be accessed off of the Ham Sources page at <http://centralmiarc.com/docs/> as the first document under the heading "For CMARC Members & Visitors...Downloads and More!"

We hope to see you on October 11th!

Sincerely,

Daniel Beuchert – WX8MOJ
CMARC President



October's Birth Flower is the Calendula

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



OCTOBER LADIES TEA TIME LUNCHEON

Our September Luncheon was a lot of fun at the "Cracker Barrel Old Country Store". It took the 7 of us a while to order, because EVERYTHING in the menu sounded so good, but when our orders finally did arrive, we were all more than pleased with our choices! While visiting during our meal, we were also able to decide on where to go for our next Luncheon in October, as well as the date of our Ladies Tea Time Christmas Party in December. Before we left, we wandered the store looking at their holiday merchandise, where we each fell in love with something that was priced a little higher than we could afford! What's that old saying...oh yeah, "Que Sera, Sera"!!

Anyway, now we're looking forward to October's Luncheon and this time we're going to Bob Evans Restaurant located at 900 American Road in South Lansing. We'll be there on Saturday, October 26th at 12:30pm and please, if you've never attended or it's been a while, mark your calendar so you don't forget...I know you won't want to miss out and we'd sure love to see you there!

Just a quick reminder, as we've been doing for the past few years, we WON'T be having a Luncheon in November. Our December Luncheon will be our "Ladies Tea Time Christmas Party" on Saturday, December 7th at 11 am. I will have more details in the November SCOPE and on the CMARC Website "Ladies Page"!



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

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 LICENSE EXAM QUESTIONS**

1.) What is a common repeater frequency offset in the 70 cm band?

- A. Minus 600 kHz
- B. Plus or minus 5 MHz
- C. Plus 600 kHz
- D. Plus or minus 600 kHz

2.) Which instrument is used to measure electric current?

- A. An ammeter
- B. A voltmeter
- C. An ohmmeter
- D. A wavemeter

3.) Which of the following is accurately represented in electrical circuit schematic diagrams?

- A. Wire lengths
- B. Physical appearance of components
- C. The way components are interconnected
- D. All of these choices are correct

• **GENERAL LICENSE EXAM QUESTIONS**

1.) Which of the following factors determine the characteristic impedance of a parallel conductor antenna feed line?

- A. The distance between the centers of the conductors and the radius of the conductors.
- B. The radius of the conductors and the frequency of the signal.
- C. The frequency of the signal and the length of the line.
- D. The distance between the centers of the conductors and the length of the line

2.) Which of the following must be true before amateur stations may provide communications to broadcasters for dissemination to the public?

- A. The communications must directly relate to the immediate safety of human life or protection of property and there must be no other means of communication reasonably available before or at the time of the event
- B. The communications must be approved by a local emergency preparedness official and conducted on officially designated frequencies
- C. The FCC must have declared a state of emergency
- D. All of these choices are correct

3.) What is the maximum symbol rate permitted for RTTY or data emission transmission on the 20 meter band?

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

• **EXTRA LICENSE EXAM QUESTIONS**

1.) **How does the maximum distance of ground-wave propagation change when the signal frequency is increased?**

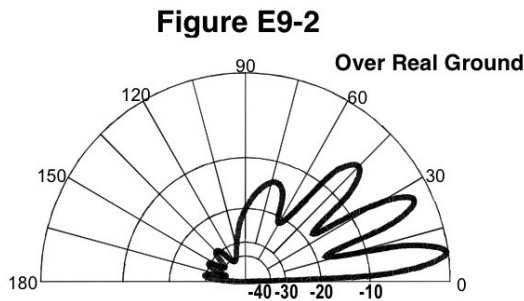
- A. It peaks at roughly 14 MHz
B. It decreases
C. It stays the same
D. It increases

2.) **What is the main drawback of a wire-loop antenna for direction finding?**

- A. It has a bidirectional pattern
B. It is non-rotatable
C. It receives equally well in all directions
D. It is practical for use only on VHF bands

3.) **What is the elevation angle of peak response in the antenna radiation pattern shown in Figure E9-2?**

- A. 75 degrees
B. 25 degrees
C. 45 degrees
D. 7.5 degrees



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

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

HAMFESTS

Date: Saturday, **October 19** - Muskegon Color Tour Hamfest
Location: Muskegon, MI
Sponsor: Muskegon County Emergency Communication Services
Website: www.mcecs.net/Hamfest.htm

Date: Sunday, **October 20** - Kalamazoo Hamfest
Location: Kalamazoo, MI
Sponsor: Kalamazoo Amateur Radio Club & Southwest Michigan Amateur Radio Team
Website: KalamazooHamFest.com

I'M A HAM...

By the flip of a switch I can call my friends from far and near and engage them in stimulating conversation whenever I choose.

Executives, students, business and professional friends are all embraced by this alluring Hobby, and willingly share their experiences with me.

Congenial fellow-Hams can be found at the turn of the road when I'm traveling, all eager to smooth my path and make my trips pleasant.

Amateur licenses have been held by hundreds of top men in the radio industry, and have often proved to be the first step to their success.

Understanding and good will are strengthened through free speech among these Amateurs in all lands, exerting a broadening influence on our Hobby.

Since ours is the only Hobby in the world that requires a government license, this factor gives us a feeling of accomplishment and belonging.

Earthquakes, floods, or fires have always found the Ham eager to act in an emergency, so this Hobby we share has even been used to save lives!

~Author Unknown

[This month's article is about a CMARC Member from the 1960's. Have fun reading! ~Julie]

"What's My Sign?"

By Julie McLain KB8ZXR

I was born on August 25, 1940 in Lansing, Michigan and had three younger sisters. My Dad was an industrial and residential painter after he graduated from High School. Sometime in the 1950's he took employment with the US Postal Service, first as a clerk and later as a rural carrier. My Mother was a work-at-home Mom and life back then centered around family, school and church. In 1943, before Dad went into the US Army Air Corp, he moved Mom, me (then 3 yrs. old) and my baby sister to a half-duplex in Leslie, Michigan. Then in 1946, he bought our grandparents' home just around the corner and it's here I lived until I entered college. In 1958 I graduated from Leslie High School and then later that same year entered Michigan State University, graduating in December of 1963—a true Spartan!! By graduation day, I was married, had a son, and a full-time job!

I met my future wife in September of 1957 when she and her two older sisters came from Lansing to Leslie to attend my best friend Mel KD8LL's birthday party. We met and the rest is history! Sylvia and I were married on September 9, 1961 at the (then) Calvary EUB Church on Pennsylvania Ave, just south of Mt Hope Ave in Lansing. This past September we celebrated our 52nd Wedding Anniversary. Sylvia and I have two sons and our youngest is a Ham. We also have one granddaughter, age 21, who is in her fourth year at Grand Valley State University where she's studying to be a nurse.

Radio played a very important role in my employment career, as I've worked in Broadcast Engineering, held 2 radio jobs, and for the last 20 years of employment I've worked at the Amateur Radio Relay League as a Technical Editor and Manager. I have been retired since 2001. Besides Amateur Radio, some of my other interests are Computers and the Internet, which seem to take up most of my time these days. (You can check out my Website: <http://k8ch.net> and blog: <http://secondaryrds.com>)

I guess you can say that my interest in Radio first came about when I began discovering the "other bands" on my family's console radio and then tuned in to listen to the various short-wave transmissions. Soon after, I began to rebuild old receivers which I enjoyed immensely. Then one day a neighbor mentioned that I could get a "Ham ticket" and talk with those folks I was listening to. He sent me to another neighbor, Jim K8LTJ, who became my Elmer. I was 19 when Pete Gosset gave me the Novice and Tech exams at his radio shop that he ran with Chuck Richardson on Mt. Hope Ave. in Lansing. I got my Novice license with 5 wpm code and I also held a Technician license, which you could do back then. I am now an Extra, and back when I upgraded, I had to go to Detroit, where there were no VE's (only FCC staff) and no multiple guess questions, either!

My shack is made up of my main transceiver which is a Yaesu FT-1000D, along with an ICOM IC-706MKIIG which serves for VHF and UHF, plus it's used for listening to AM and FM broadcast bands. My amplifier is an Alinco AL-1200 and for my antennas I have a Force 12 C4XL for 40, 20, 15 & 10-m (which works on the 17 and 12-m bands, too). I also run a six-element on 6-m and a two element 15-m Yagi. For 80/75 I have a broadband dipole as described by Frank Witt AI1H in "QST". We also have the "K8SYL Dipole" that was described in the "QST" for August 2007, which covers 75 and 10-m. Over the years, I've built many kits, and "from scratch" radios. I even built my first Novice one-tube transmitter according to plans from the ARRL Handbook. And while it wasn't very efficient and I had to wait until late at night when activity was low before I made any contacts, it did work!!

It's really hard to say which one of the Band's is my favorite, but I guess I'd have to say it's the 15-meter band. I've always enjoyed DX and Contesting and that was especially fun from Ecuador, as the mountains and the equator make for an excellent radio location. It was while living in Quito, Ecuador, where I held the call HC1CW (which has since been reissued), that I made one of my most memorable CW contacts. I pointed the quad at Southeast Asia and listened on 20-m CW. Sure enough there was my friend Maurice calling me--signing VS5MC/MM. Maurice was recently recovered from the British Signal Corps and was working for the Sultan of Brunei. In our short QSO, he told me that he was aboard an LST (Landing Ship, Tank) and they were headed for the Spratley Islands. Then he sent, "Oops, big guns. QRT." A week later when we talked again, he said that a military installation was not expected despite the fact that the ownership of the Islands were being disputed.

When Julie asked me if I had any thoughts I'd like to share regarding CMARC and this great Hobby, I mentioned a few. "CMARC has a long and proud tradition of service to the Community and to fellow Hams and I'm glad to have been a part of it! One example is back in the 1960's with the Sabin Oral Sunday program in which oral polio vaccine was distributed to the public from schools across the country. CMARC provided communications then and I was stationed at a school in East Lansing. My sweetheart (now wife) came and kept me company. Also, I read in the August SCOPE that Ken W8AAX is a member of the Greater Lansing DX Group. He and I were among the founders of that group and one of the requirements was that Members had to also belong to CMARC. The founders didn't want to be in competition with CMARC, but rather to enrich our membership. And here's one final thought: Enjoy Amateur Radio, but don't let it run (or ruin) your life".

There, now that we've become a little better acquainted, "What's My Sign?" My Callsign is K8CH and my name is Chuck Hutchinson. My wife is Sylvia K8SYL and my son is N1DSF. My Dad was LeRoy Hutchinson (SK) and I think his Callsign was WN8AAW.



CMARC BOARD MEETING September 13, 2013

[Sec. Note: Thanks to Sharon/KD8HHK for taking notes and to Julie/KB8ZXR for recording the meeting since I was unable to be there due to my husband, John/KC8QZB being in the ER.]

President Dan Beuchert/WX8MOJ called the meeting to order at 7:09 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: Jane Fitzgerald, wife of Russ/N8FZ and mother of Sam/N8FPR.

Motion to adjourn was made by Don/KB8RAD, seconded by John/KD8NNQ and granted.

Respectfully submitted,
Jane Hosford/KC8FSK-Secretary

CMARC MEETING MINUTES September 13, 2013

President Dan Beuchert/WX8MOJ called the meeting to order at 7:36 and welcomed both members and visitors attending tonight.

Moment of silence for silent keys.

Silent key report:

Jane Fitzgerald, wife of Russ/N8FZ and mother of Sam/N8FPR.

ATTENDANCE:

There were 37 people in attendance. Visitors included Herbert Terbrack/KB8QEZ, Allan Ostrander/KD8VJD, Ben Barker/WD8OVL and Mary Tillitson.

NEW LICENSES, UPGRADES and VANITY CALLS:

Ben/WD8OVL upgraded his license.

CARDS AND FLOWERS REPORT:

A sympathy card was sent to Russ/N8FZ and Sam/N8FPR Fitzgerald.
Flowers were sent to the funeral of Jane Fitzgerald.

OLD BUSINESS:

- Jim/KC8QWH made a motion to accept the secretary's minute as provided in the August Scope. Seconded by Jerry/KD8GLN and approved.
- Don/KB8RAD made a motion to accept the treasurer's report as provided in the August Scope.

Seconded by John/KD8NNQ and approved.

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:

- Jim/KC8QWH talked about Races and Skywarn and would like to see new members.
- Jim/KC8QWH made a motion to take Board nominations in October, motion tabled.
- Jim/KC8QWH made a motion to amend the by-laws to include voting by email.. Motion tabled until October meeting. Needs to be publicized and notice provided to the membership. Don/KB8RAD will write up a motion to amend the by-laws.

UNDER 22 REPORT:

Nothing to report.


50/50 DRAWING:

Leota/KD8SQD won the 50/50 drawing.

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

With all business concluded the meeting was adjourned at 9:17 pm.

Respectfully submitted,
Jane Hosford/KC8FSK-Secretary

September 2013 Treasurer's Report		
Primary Share Acct. (Humphreys Fund)	\$1089.88	 Submitted, Jerry Waite/KD8GLN - CMARC Treasurer
Business Checking	\$3331.18	
Net Worth	\$4421.06	
Youth Fund Balance* (as of 04/2013)	\$253.14	
Building Fund (Club Station)	\$9.09	
<i>separate from CMARC Funds</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. 10/03/13, 12/05/13

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

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. 10/24/13, 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

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 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!"

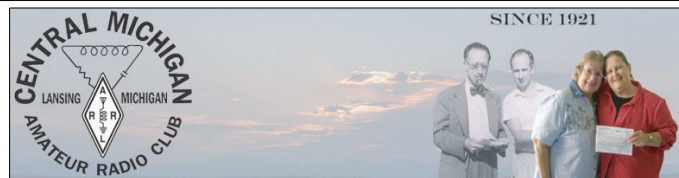
The **"Mid-Michigan Information Net"** meets every Wednesday night at 7pm on the 145.39 repeater (PL 100 Hz), with Net Coordinator Don McLain/KB8RAD. This Net has been around now since November 11, 2009 and is still growing!! Be sure to join Don for a time of FUN, FELLOWSHIP, and helpful INFORMATION!!

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

he 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	
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 7:30pm. 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	wd8bcs@arri.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