



THE SCOPE



Lansing Civil Defense Repeater Association

CMARC MEETING

The next monthly meeting of the “Central Michigan Amateur Radio Club” will be on Friday, November 14th at 7pm. Our program speaker for the month of November will be CMARC member Ted Sadilek/WA8MFQ. Ted is a docent at Lansing’s Potter Park Zoo and a trained raptor handler (among other things), and will be accompanied by his wife Bev (also a docent). Together they will reprise their presentation of two years ago, bringing a delightful assortment of animals from the Zoo into our Club for display and giving us background information on each of them. Also included among the animals is a cuddly bunny rabbit to pet, so please be sure to bring the kids (and your cameras)! There will be an opportunity for a close-up look at the critters and some time for questions and answers. You surely won’t want to miss this one, so bring the whole family out and join us, because we’re really going to have a great time! Oh, and don’t forget about the good eats we have for you during the break, too!

Board Nominations

As we approach the November meeting this Friday, I want to send out a reminder that this Friday is the last time that we can accept nominations for the Board of Directors moving forward for the December election at the Annual meeting / Christmas Party.

The current Board members whose limits are up include: Daniel Beuchert, Sharon Waite, John Doornhaag, Jane Hosford, and Sam Fitzgerald (under 22).

Of these members, Daniel Beuchert and Sharon Waite are not running for election again. So far Jane Hosford has been nominated. There are 5 open seats this coming election, though one is for Under 22 director (currently held by Sam Fitzgerald), and one of the remaining board positions will be for a 1 year term so that we can even out the election cycle for 3 adult and 1 youth member up for election each year.

If you wish to nominate someone, but cannot make it to this Friday's November meeting, please email your nominations to cmarcvoting@gmail.com before the meeting!

73, Daniel Beuchert – WX8MOJ CMARC President

Scoping out THE SCOPE

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MEETING SCHEDULE

GROUP	CMARC 	ARPSC 	LCDRA 
DATE	11/14/14	11/17/14	01/15/15
TIME	7:00 P.M.	7:00 P.M.	7:00 P.M.
LOCATION	SALVATION ARMY	FIRE STATION # 8	FIRE STATION # 8
WEBSITE	WWW.CENTRALMIARC.COM/	WWW.LANSINGARPSC.COM/	WWW.LCDRA.NET/

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
 11/18 MARV SOMMER/WB8OIP
 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

December

Birthdays

12/07 MICHAEL BOENSCH/KD8VHT
 12/08 TED SADILEK/WA8MFQ
 12/08 WILLIAM SMITH/KD8INX
 12/09 CHARLES TARICKSKA/KD8VJM
 12/11 RUSSELL FITZGERALD/N8FZ
 12/11 KALIL OLSEN
 12/12 ROBERT MANN/WD8OEV
 12/24 JOHN LISTERMANN/KD8ZHC

Anniversaries

12/18 DAN CAMERON/KD8QFB
 12/18 RALPH CHAPMAN/WA8NHD
 12/28 DAVE HAYHURST/K8QH
 12/31 DAN/WX8MOJ AND DAWN/KD8MWA
 BEUCHERT

ARPSC MEETING

The next monthly meeting of the "Lansing Area/Ingham County Amateur Radio Public Service Corps" will be on Monday, November 17th at 7 pm. This time we'll be meeting at Lansing Fire Station #8, on the corner of Marshall Street and Grand River Avenue in Lansing. 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



**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





The special



*“Christmas Party”
Edition of the Ladies*



*Tea Time Luncheon will be from
11 AM until approximately 4 PM on
Saturday, December 6th at Grovenburg*



*United Methodist Church, 1368 Grovenburg
Road, in Holt. We will be ordering Pizzas for dinner,*



*Exchanging our gifts, and playing Bingo. Please bring ten
\$1 wrapped gifts for the Bingo prizes, one wrapped \$6 gift to*



*Exchange (NO Lottery tickets, PLEASE!!), plus \$ for your Pizza.
Please RSVP Ladies Luncheon Coordinator Julie McLain/KB8ZXR*



*R.S.V.P. by Thur, Dec. 4th.
PHONE: (517) 694-0812 or
EMAIL: 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 T6D04 - Which of the following can be used to display signal strength on a numeric scale?

- A. Meter
- B. Relay
- C. Transistor
- D. Potentiometer

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

- A. A voltage divider
- B. An RF power amplifier
- C. An impedance network
- D. All of these choices are correct

3.) Question T6A11 - Which of the following battery types is not rechargeable?

- A. Carbon-zinc
- B. Nickel-cadmium
- C. Lithium-ion
- D. Lead-acid

General Class 2011 Pool

1.) Question G6C06 - Which of the following describes an integrated circuit operational amplifier?

- A. Digital
- B. Analog
- C. Programmable Logic
- D. MMIC

2.) Question G9C03 - Which statement about a three-element, single-band Yagi antenna is true?

- A. The driven element is the longest parasitic element
- B. Low feed-point impedance increases bandwidth
- C. The reflector is normally the shortest parasitic element
- D. The director is normally the shortest parasitic element

3.) Question G1A10 - Which of the following frequencies is within the General Class portion of the 15 meter band?

- A. 18155 kHz
- B. 21300 kHz
- C. 14250 kHz
- D. 24900 kHz

Extra Class 2012 Pool

1.) Question E6D04 - What function does a charge-coupled device (CCD) serve in a modern video camera?

- A. It focuses the light used to produce a pattern of electrical charges corresponding to the image
- B. It stores photogenerated charges as signals corresponding to pixels
- C. It combines audio and video information to produce a composite RF signal
- D. It generates the horizontal pulses needed for electron beam scanning

2.) Question E6F08 - Why are optoisolators often used in conjunction with solid state circuits when switching 120 VAC?

- A. Optoisolators eliminate the effects of reflected light in the control circuit
- B. Optoisolators provide impedance matching between the control circuit and power circuit
- C. Optoisolators provide a low impedance link between a control circuit and a power circuit
- D. Optoisolators provide a very high degree of electrical isolation between a control circuit and the circuit being switched

3.) Question E0A02 - When evaluating RF exposure levels from your station at a neighbor's home, what must you do?

- A. Advise your neighbors of the results of your tests
- B. Make sure signals from your station are less than the uncontrolled MPE limits
- C. Make sure signals from your station are less than the controlled MPE limits
- D. You need only evaluate exposure levels on your own property

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

ANSWERS Technician: 1-A; 2-B; 3-A General: 1-B; 2-D; 3-B Extra: 1-B; 2-D; 3-B
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November 2014

HAMFESTS

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



DECEMBER TEA TIME LADIES' DAYS

December 19th – Jane/KC8HJQ & George/KC8DVV Newton's 34th Anniversary!!
December 31st – Dawn/KD8MWA & Daniel/WX8MOJ Beuchert's 7th Anniversary!!

NOVEMBER & DECEMBER'S LADIES TEA TIME LUNCHEON

As usual, we will NOT be having a Luncheon in November, however, we WILL be having our Annual Ladies Tea Time Christmas Party on Saturday, December 6th from 11am until about 4pm. And once again, we'll be meeting at the Grovenburg United Methodist Church, 1368 Grovenburg Road in Holt.

Remember Ladies, you are ALL invited to attend our Christmas Party, whether you are licensed or not!! So please be sure to attend, because we always have a really fun time and I KNOW you won't want to miss out!!

Remember to bring ten-\$1.00 wrapped gifts for the Bingo prizes, a wrapped \$6.00 gift to exchange, plus money for the meal. I'm asking you to RSVP me by Thursday, Dec. 4th so I'll know how many plan on attending and how many Pizzas we'll need to order, too. If you have any questions please call or email me.

~Julie McLain, KB8ZXR~

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



LADIES TEA TIME NET

Please join me for the "Ladies Tea Time Net" every Tuesday evening at 7pm on the 145.39 repeater (100 Hz PL). This is an informal Net whose main purpose is to encourage our Lady Hams to get out on the air and have fun talking with Ladies in other parts of the country and around the world! We encourage un-licensed Ladies to join us by having their licensed friend or husband check them in "Third Party". We also give our Gentlemen a couple of times during the Net to check in, too!

This Net isn't just for those Hams in range of this repeater, either, no...our Net is connected via NE8K to the *DoDropIn* EchoLink Conference Server (ID # 355800), which means our "Ladies Tea Time Net" is heard around the world! And we've had fun talking to Lady Hams in Japan, Florida, California, and New Jersey, just to mention a few. And we've also talked with Gentlemen Hams from Australia, Newfoundland, Hawaii and other parts of the world, too! 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 Control



CMARC BOARD MEETING October 10, 2014

President Dan Beuchert/WX8MOJ called the meeting to order at 6:37 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 was excused.

- Silent Keys: William Torrence/KC8ALL and Kevin Wilkinson/KC9VAN.
- Have separate CMARC and LCDRA membership forms on the website. Not a fillable form.
- Dan/KD8YDE has talked about donating a table to our club room. The Board decided the table will not be a good fit and has decided not to take it.
- Dan/KD8YDE will be our new Scope editor.
- We are a special service club. Need someone to keep track of the renewal date.
- 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.

Motion to adjourn made by John/KD8NNQ, seconded by Sharon/KD8HHK and approved. Meeting adjourned at 7:00pm.

Respectfully submitted,
Jane Hosford/KC8FSK-Secretary

CMARC MEETING MINUTES October 10, 2014

President Dan Beuchert/WX8MOJ called the meeting to order at 7:07pm 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: William Torrence/KC8ALL and Kevin Wilkinson/KC9VAN.

A moment of silence for our silent keys.

ATTENDANCE: There were 39 people in attendance. Visitors included: John McDonough/WB8RCR, Leon Langridge, Mary Tillitson, Vicki Weaver Dembinski, John Kuchar, Jim Byers and Linda Dunahoo.

NEW LICENSES, UPGRADES and VANITY CALLS: None.

CARDS AND FLOWERS REPORT: Sympathy cards were sent to the families of William Torrence/KC8ALL and Kevin Wilkinson/KC9VAN.

INTERESTING DX CONTACTS: Brian/KD8ONC-South Korea, Japan, Australia, South Pole.

OLD BUSINESS:

- A motion to accept the September Secretary's Report as printed in the September SCOPE was made by Bill/WD8NYW, seconded by Jim/KA8DDQ, and approved.
- A motion to accept the Secretary Treasurer's report as printed in the Secretary SCOPE was made by Jim/KA8DDQ, seconded by Ken/W8AAX and approved.
- Ken/W8AAX: as of January 1, 2015 will no longer be doing the 10 meter net on Thursdays @9:00pm, 28.495.
- Dan/KD8YDE is working on a printed form for the new membership directory. Chris/NS8Q has offered to help.
- September food drive: The Club donated 250 pounds of food.
- Technician class: Lansing fire station #44. Being taught by John Crawford/N8LLC, Tom Rocheleau/WA8WPI and Dan Beuchert/WX8MOJ starting October 15th, 6:30 - 8:30, eight classes, possible VE testing on last class day.

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.
- Don McLain/KB8RAD nominated Jane Hosford/KC8FSK and she accepted the nomination.
- DonTillitson/WB8NUS is stepping down from net control for the special events the club does during the year. John Tyree/KD6KCX will do the CHUM walk and the hospice walk, but volunteers are needed to be net control for the other events during the year.
- The next special event coming up is Silver Bells and RACES handles that.
- Charlotte VE testing tomorrow.
- ARPSC on October 20th.
- LCDRA is Thursday October 16th.
- Jimmy/KD8IWQ said to beware of antenna.deals.com.

UNDER 22 REPORT: Nothing to report.

50/50 DRAWING: John/KD8NNQ won \$16.00 and donated it back to the club.

Motion to adjourn for break made by Don/KB8RAD seconded by Dan/KD8YDE and approved.

MAIN PROGRAM AND/OR SPEAKER:

John McDonough/WB8RCR, 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, State Auxcomm Emergency Management Coordinator. Auxcomm member of COMU, Former Division Rep to ECAC, currently revising PSCM.

Motion to adjourn made by Brian/KD8ONC, seconded by Dan/KD8YDE and approved. Meeting adjourned at 9:00 pm.

Respectfully submitted,
Jane Hosford/KC8FSK-Secretary

October 2014 Treasurer's Report	
Primary Share Acct. (Humphreys Fund)	\$1091.04
Business Checking	\$4006.64
Net Worth	\$5097.68
Youth Fund Balance* (as of 04/2013)	\$253.40
Building Fund (Club Station)	\$9.09
Field Day	\$372.12
<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.

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. 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. 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!”

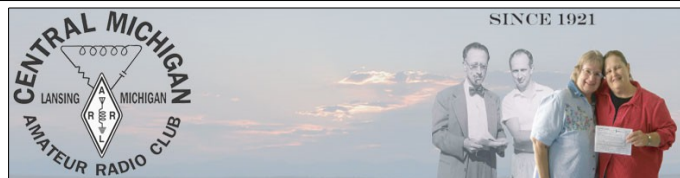
The “**Mid-Michigan Information & Trader’s Net**” meets every Wednesday evening at 7:00pm on the 145.39 repeater (PL 100 Hz), with Net Coordinator Don McLain/KB8RAD. This Net has been around now for over FOUR YEARS (since November 11, 2009) and is still growing!! Be sure to join Don for a time of FUN,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