



The Scope

Central Michigan Amateur Radio Club

Lansing Civil Defense Repeater Association

February 2017
Volume 17
Issue 2

February CMARC Meeting

This month we are going to hold a Q&A session with our members. The Board is interested in what you would like to see in 2017. This is your chance to voice your ideas and opinions and get some of your questions answered.

Please join us this coming Friday and let your voice be heard.

When: CMARC Monthly Meeting
7:00 pm, Friday, February 10, 2017

Where: Salvation Army South Corps
701 W. Jolly Rd., Lansing, MI 48910

For more information, you can check out our website at www.centralmiarc.com or get a hold of Club contact Don McLain/KB8RAD at KB8RAD@arri.net.



Inside This Issue

Birthdays, Anniversaries,		Meeting Minutes	6-9
Treasurer's Report , Mtgs	2	CMARC Puzzle Page	10
Ziegenbein Nominations	3	Classifieds	11-12
VE Exam Page	4	Net Info & Officers	13
Gregg Mulder/WB8LZG	5		

February Birthdays:

2/3 John Kucher / KD8TMW
 2/4 Cheryl Davage / KD8QFE
 2/5 Mike Holcomb / WX8MH
 2/8 Dennis Shubitowski / NS8H
 2/8 Steve Lyon / W8RQS
 2/12 Tom Rocheleau / WA8WPI
 2/13 Jon Seaver / N8SUA
 2/14 Don McLain / KB8RAD
 2/14 Marlene Harger / KC8GXO
 2/20 Abby Beuchert
 2/24 Ron Harger / WD8BCS
 2/26 Russ Fitzgerald / N8FZ

February Anniversaries:

2/11 Bob Crawford / K8ZAP

Upcoming Meetings:

CMARC

The next meeting for the Central Michigan Amateur Radio Club is Friday, **February 10th** at 7:00 pm at the Salvation Army South Corps, located at 701 West Jolly Road, near the corner of Washington Avenue & West Jolly Road in Lansing.

ARPSC

The ARPSC meeting for the month of February is at 7:00pm on Monday, **February 20th**. We will be meeting at the Ingham County Sheriff's Department off Curtis Road in Mason - Sgt. Cole Training Room. For more information about the ARPSC, please check out our website at www.lansingarpsc.com



2017 SKYWARN TRAINING SESSION

Saturday April 22, 10am to noon at Holt Christian Church.
 See www.lansingarpsc.com for details.
 Click on training link.

Treasurer's Report 2017

John Doornhaag / KD8NNQ - CMARC Treasurer

Bank Balances for January	
Beginning Balance	\$3,738.65
Total Monthly Income	\$315.00
Total Monthly Expenditures	(\$356.52)
Total Business Checking	\$3,698.13
Petty Cash	\$1.00
Sub Total	\$3,698.13
Primary Share Accounts	
Humphrey's Fund	\$1,093.46
Building Fund (Club Station)	\$19.09
Field Day	\$530.40
Total Net Worth	\$5,341.08
Youth Fund Balance*	\$253.94
* Separate from CMARC Funds	

FEBRUARY LADIES LUNCHEON

Jane Hosford / KC8FSK has planned a Ladies Luncheon for Saturday, February 18, 12:30 pm at the Cracker Barrel on the west side.

Please call or email her if you are planning to attend.

Home: (517) 515-7610
 Cell: (517) 940-0412
 Email: jlhoford54@hotmail.com

Ziegenbein Nominations

It's time to begin thinking about who you would like to nominate for the 2016 Ziegenbein Award.

For those of you who are not familiar with the award - it is presented each May to the Full CMARC member who has contributed the most to Amateur Radio, in general and CMARC, in particular for the previous calendar year.

Nomination Guidelines

1. The recipient must be a *full, current* member of CMARC
2. Nominations to be made in writing, in your own words, *no* chain letters to be accepted, stating nominees contributions to CMARC and Amateur Radio.
3. All nominations are to be kept secret until the award is presented.
4. All nominations are to be mailed (regular postal mail *OR* email).
5. The same person can receive the award more than once.
6. The Committee shall consist of the last three recipients; the senior member shall be the chairman.
7. All nominations are to be closely checked and discussed by the Committee.
8. If the Committee feels the nominees are not deserving, the award does not have to be given.
9. Nominations are to be submitted before *March 15th* of each year, so the Committee can make the selection and have the plaque engraved.
10. The recipient will be announced at the annual Ladies' Night.

REMEMBER

Your nominations for the Ziegenbein Award are due March 15th. This year's Senior Chairman of the Ziegenbein Committee is Jane Hosford/ KC8FSK.

Send your e-mail nominations with a subject line of "**Ziegenbein Nomination**", to jlhosford54@hotmail.com.

If you prefer to use snail mail:

Jane Hosford
7057 Kieppes Court
Lansing, MI 48911

Write "**Ziegenbein Nomination**" on the envelope.

ARRL Volunteer Exams



Ingham County VE Group Ingham County VE Group

**Lansing Fire Station #44
1435 E. Miller Rd.
Lansing, MI 48911-5322**

Contact: Don McLain / KB8RAD
(517) 701-9745
KB8RAD@arrl.net

During the ODD MONTHS, we meet on the second Saturday of the Month at 11:00 AM.

**April 6th, June 1, August 3,
October 5, and December 7**

**Lansing Fire Station #44
1435 E. Miller Rd.
Lansing, MI 48911-5322**

Contact: Don McLain / KB8RAD
(517) 701-9745
KB8RAD@arrl.net

During the EVEN MONTHS, we meet on the first Thursday of the Month at 7:00 PM.

**March 11, May 13, July 8,
September 8, and November 11**

Eaton County ARC VE Sessions

**Charlotte Church of Christ
64 Van Sickle Dr.
Charlotte, MI 48813-9999**

Contact: Mark Korroch / WB8TGY
(517) 645-2378
wb8tgy@yahoo.com

All sessions begin at 12:00 PM and walk-ins are allowed.

**February 11, April 8, June 10,
October 14, and December 9**



Congratulations to Steve Cooper / N8NTU for passing his General Class exam. Steve was inspired by listening to shortwave and even old pirate radios to get his license, and get involved in radio arts. He also plans on studying for his Extra Class license soon.

More “Dumb and Dumber”

By Gregg Mulder / WB8LZG



Last year I penned an article in the SCOPE about the “dumbing down” of our hobby. Much of the complaint was about our current Question Pool for the amateur exams. I would hope that the future exams would be a bit more electrically challenging.

Many of our electrical engineering students in America are falling behind when it comes to learning anything about electronics. This not only has me wondering about the quality of engineers we are graduating but also about the quality of the work they will do in their “careers.”

The ARRL is not helping matters any either. In a recent review of a kit project in the August 2016 issue of QST, we are told by an ARRL staffer, about resistor identification. We are told to lay out all the resistors on a piece of double sided tape mounted on a piece of paper and measure them with an Ohm-meter, then write down the value for easy identification. These guys all must have gotten their degrees from the same university, LAZY U! What ever happened to “memorizing” the resistor color code? It isn’t rocket science folks. It’s 10 numbers and 10 colors! I did it in about an hour. Both my kids did it at 9 and 11 years old, in about 15 minutes. We all had to learn our ABC’s, we all had to learn how to do our “times tables,” didn’t we? What could be simpler? Apparently looking it up on Google passes for knowledge these days. Oh yes, I’ve heard all the excuses. None worth repeating here.

If you want to use that Ohm-meter to “verify a suspected foul one,” this is a good way, but to use it, because you don’t want to learn the

Color Code is sheer nonsense. What happens when your Multimeter battery runs down?

It sickens me to no end to see “nearly half” of the students leaving with an EE degree, do NOT know the resistor color code. (some, not much about electronics either for that matter) Why not? Only one reason, LAZY. That’s right, LAZY! The students are too lazy to learn it, and faculty too lazy to teach it. In fact, in verbal protest, I was told that “these days very few will ever use the color code in their future, so why waste time learning it.” Waste time? When is knowledge a “waste of time?” How can we expect to compete with all the other “smart kids” in the world when we don’t put any value on learning the basics? Many of these same students are unable to recite any of the “common formulas” in electronics. You know the ones, like resonance, inductive and capacitive reactance, and the list goes on. What do they do if the internet goes down? Frown and look helpless.

Is it any wonder why many of these same graduates complain about how hard it is to find a good job? Hmmm, wonder why?

It’s high time our national ham organization quit being so passé about what our ham radio operators are learning, and what it prints. Whatever happened to promoting “learning the basics”? We need to uphold these standards to maintain a top notch group of engineers in our country. Sadly the ARRL and many of our top universities are falling behind. It’s numbers and profit that drives the educational machine these days and integrity has gone by the wayside. It’s a shame; we used to be number 1 in the world. Can we make that claim today? Where will we be tomorrow? What do you think? Will you contribute to making it better? Or just watch from the sidelines.....

And yes I’m complaining! Because I know we can do better! ■

Color Codes			
0 Black	1 Brown	2 Red	3 Orange
4 Yellow	5 Green	6 Blue	7 Purple
8 Grey	9 White	±1% Brown	±2% Red
±5% Gold	±10% Silver		
4 Band Resistors			
5 Band Resistors			
6 Band Resistors			

Central Michigan Amateur Radio Club Board Meeting Minutes

Date: January 7, 2017

Time: 6:00 PM

Location: Denny's Restaurant on W. Saginaw Hwy.

OPENING:

- 1) President Tom Rocheleau/WA8WPI called the meeting to order at 6:01 pm.
- 2) The following Board members were in attendance: John Doornhaag/KD8NNQ, Ted Sadilek/WA8MFQ, Clyde Tompkins/K8CPT, Chris Ranes/NS8Q, Tom Rocheleau/WA8WPI, and Jane Hosford/KC8FSK.

2017 BOARD MEMBER DESIGNATIONS:

- 1) President: Tom Rocheleau/WA8WPI
- 2) Vice President: Russ Fitzgerald/N8FZ
- 3) Secretary: Chris Ranes/NS8Q
- 4) Treasurer: John Doornhaag/KD8NNQ
- 5) Director: Ted Sadilek/WA8MFQ
- 6) Director: Clyde Tompkins/K8CPT
- 7) Under 22 Director: Sam Fitzgerald/N8FPR

CARDS AND FLOWERS REPORT:

- 1) Erv Bates/W8ERV's Dad passed away and a \$40.00 donation was made to help with final expenses.
- 2) Brent Hannahs, the son of Clint Hannahs/KC8EHR and the son of Roxanna Hannahs/KC8GAK passed away on January 3, 2017. A \$40.00 donation was made to the Eaton Community Palliative Care in memory of Brent.
- 3) Don Cote/KD8BD passed away on January 4, 2017.

FIELD DAY:

- 1) June 24th and 25th, 2017. We need to contact the City of Mason to see about having it there again since our three years is up.

LADIES' NIGHT – ZIEGENBEIN AWARD BANQUET:

- 1) Jane Hosford/KC8FSK will be chairing the banquet this year.
- 2) The banquet is on Friday, May 12, 2017 at the Delhi Café on Willoughby Rd.
- 3) We'll have entertainment, a cake from Sam's Club, and present the Ziegenbein Award. We always have a good time and hope to see you all there.

501(c)3 STAUS:

- 1) We hope to finalize it this year.

ADJOURNMENT:

- 2) With there being no further business, John/KD8NNQ made a motion to adjourn the meeting.
- 3) Ted/WA8MFQ seconded, and the motion passes.
- 4) Meeting adjourned at 7:15 pm.

Respectfully submitted by,
Jane Hosford/KC8FSK – Outgoing Secretary

Central Michigan Amateur Radio Club Meeting Minutes

Date: January 13, 2017

Time: 7:00 PM

Location: Salvation Army South Corps

OPENING:

- 1) President Tom Rocheleau/WA8WPI called the meeting to order at 7:01 pm.
- 2) Sam Fitzgerald/N8FPR held the flag for the Pledge of Allegiance.
- 3) Please be sure to sign the sign-in sheets attached to clipboards circulating the room. One for Visitors and the other for Members.
 - a) The Salvation Army needs to know how many people come to our meetings.

NEW BOARD INTRODUCTIONS:

- 1) Tom introduced our newest Board Member, Clyde Tompkins/K8CPT as well as the remaining Board Members.
- 2) Tom Rocheleau/WA8WPI will continue as President one more year.
- 3) Russ Fitzgerald/N8FZ will continue as Vice President.
- 4) John Doornhaag/KD8NNQ will continue as Treasurer.
- 5) Chris Ranes/NS8Q volunteered to take over the Secretary position for Jane Hosford/KC8FSK. Thank you, Jane, for your many years of service.
- 6) Ted Sadilek/WA8MFQ will continue as Director.

CARDS AND FLOWERS REPORT:

- 1) Current Silent Keys
 - a) Brent Hannahs (son of Clint Hannah/KC8EHR)
 - b) Don Cote/KD8BD.
 - i) Memorial service will be February 4th at 11 am at the Holt United Methodist Church.
- 2) Tom called for a moment of silence for all of our Silent Keys.

APPROVAL OF REPORTS:

- 1) **Secretary's Report:**
 - a) John/KE8CYC made a motion to accept the Secretary's Report in the January Scope.
 - b) John/KD8NNQ seconded the motion, and the motion passes.
- 2) **Treasurer's Report:**
 - a) Bob/KB8DQQ made a motion to accept the Treasurer's Report in the January Scope.
 - b) Ted/WA8MFQ seconded the motion, and the motion passes.

INTERESTING DX CONTACTS:

John/KE8CYC has begun working Summits on the Air (SOTA).

- 1) Chris/NS8Q worked North Cook Islands (E51AMF) on 40 SSB, South Cook Islands (E51DWC) on 20 CW, and Madagascar (5R8IC) on 20 CW.

NEW LICENSES AND UPGRADES:

Kelly Fitzgerald/K9FTZ obtained her new VE accreditation.

NEW VISITORS:

- 1) Carl Woodard was introduced to CMARC by Don McLain/KB8RAD. Carl passed his Technician exam and then took and passed his General exam a week later. He wants to learn CW and begin using that exclusively. Congratulations Carl and welcome to the club!
- 2) Mike Johns/KD8ZAR attended a year ago. Welcome back, Mike!

ANNOUNCEMENTS:

- 1) The SCOPE is available on the CMARC website to download your copy of the Scope.
- 2) Any information related to Ham Radio or disaster preparation, please send to Chris at cmarcscope@gmail.com.
- 3) The Board approved raising the annual dues to \$20 beginning January 1.
- 4) Updated membership forms for CMARC and LCDRA are available in the Scope and on the website.
 - a) John/KD8NNQ is available to take membership dues and forms.
 - b) Printed forms are available at the meetings if you are unable to download your own.
- 5) If you are not signed up for our ListServ, you may do so when filling out your membership form by providing your address and checking the box that you would like to be signed up.
 - a) You may also send an email message to cmarcscope@gmail.com, and I will add you to the list. A confirmation email will be sent to you asking for your approval.
- 6) Clyde/K8CPT volunteered to organize our 5th Annual Outdoor Hamfest.
 - a) The Hamfest will be Saturday, July 29 at the Holt Christian Church.
 - b) Clyde is looking for several volunteers to help out. If you can help or would like to reserve a spot, please send him an email at clyde48837@hotmail.com.
- 7) Russ/N8FZ mentioned if you ordered a shirt, please see him at the break. If you didn't order previously, he could place another order.
- 8) Sam mentioned that he is approximately 30% done studying for his Extra class exam. He hopes that others will keep the pressure on him to finish studying.

UPCOMING HAMFEST AT THE MICHIGAN INTERNATIONAL SPEEDWAY:

- 1) The Leadership of the Michigan International Speedway (MIS) approached Larry Camp/WB8R, the ARRL Michigan Section Manager, about putting together a large Hamfest, to be a two-day event (Saturday and Sunday) held in October 2017.
- 2) MIS will handle all the money, including ticket sales, and food sales.
- 3) Larry is approaching all clubs within a 50-mile radius of Brooklyn, MI. All organizations who donate seed money will split the profits amongst themselves, and we are not sure how much CMARC will benefit from the ticket sales.
- 4) The ARRL is asking for seed money from the clubs Larry is visiting to help get things going. Larry has asked us for \$250.
- 5) Our membership must vote on the matter before we can release the money.
- 6) Volunteers will be needed to work one or both days. If you decided to work one day, you will have free access to the swap on the second day if you would like to walk around.
- 7) Invitations will be sent out to major vendors.
- 8) The cost of tickets has not been established yet.
- 9) A website is set up for the event...but we will post information in the future.
- 10) If you want to contribute individually, there is a way to do that. Information will be posted to the CMARC website when it becomes available.

MOTION:

- 1) John/KE8CYC made a motion that we donate the \$250 as seed money to the Great Lakes Amateur Radio Association.
- 2) Clyde/K8CPT seconded the motion, and the motion passes.

OLD BUSINESS:

- 1) John/KE8CYC asked about a prior motion to move our club room to a new location.
 - a) Clyde/K8CPT mentioned it is a work in progress and will take some time. He is currently working with the Salvation Army to make arrangements.
 - b) We would like to keep the station somewhere in the Lansing area if at all possible.
 - c) Any ideas you have for possible locations, please send to a member of the Board or Clyde/K8CPT.
 - d) We are looking for a place that is free or very low costs, with all the appropriate keys or codes for a keypad.

ADJOURNMENT:

- 1) With there being no further business, Tom Rocheleau asked for a motion to adjourn the meeting.
- 2) John/KE8CYC made a motion that we adjourn the meeting and move to break.
- 3) Clyde/K8CPT seconded the motion, and the motion passes.
- 4) Meeting adjourned at 7:37 pm.

SPECIAL PROGRAM:

- 1) The presentation by Tim Jurmo/AC8NI from the Salvation Army began at 7:54 pm.

Respectfully submitted by,



Chris Ranes

Secretary

Ongoing License Plate Project for the Club Room:

By Russ Fitzgerald / N8FZ

The club is trying to collect as many ham call license plates as possible from our members for a display in the club shack redesign project. Check your garage, shed, or basement and see if you have an old plate kicking around. Year or condition doesn't matter. Can't find one but still would like to participate? No problem. Here's what you do. The State of Michigan will let you order a replacement plate at any time, you do not need to wait for a renewal. All you need is a copy of your license, Amateur Radio Operator form from the state (I have

plenty of these), and a check to the state for \$2.00 for the standard plate or \$7.00 for the graphic bridge plate. When it arrives you use the new plate on your vehicle and donate the old one or donate the new one.

If you have any questions please call 517-899-2622, or email russf2211@aol.com, or see me at the next meeting. I have the forms with me.

CLASSIFIEDS

Gregg Mulder / WB8LZG
(517) 646-6257 after 5pm

NEW

\$85

Kent single lever paddle:
Black base and adorned with
Spalted Beech finger pieces.

NEW

\$70

Bencher paddle: Black base
adorned with custom Burl
Maple finger pieces.

NEW

\$40

Four State QRP club QRP watt-
meter/ dummy load. Built into
a handsome maple case.

\$5 Each

Cleaning off the book shelves in
the shack. I have the following
books available. Many are
in "brand new" condition.

Good time to stock your
library at a big savings!

- The Joy of QRP by Ade Weiss (autographed copy)
- Your QRP Operating Companion
- The Secret Wireless War by Geoff Pidgeon
- The History of QRP 1924-1960 by Ade Weiss
- Interference Handbook by Nelson
- The Contest Cookbook
- Keys II the Emporium by Dave Ingram
- International QRP Collection by George Dobbs
- Radio Projects for the Radio Amateur Vols 2, 3, & 4
- 2007 ARRL Handbook
- 2010 ARRL Handbook

Ed Oxe / W8EO
eaoyer@gmail.com

\$90 or Best Offer

Alinco DJ-V57T HT for 2 meters
and 70 cm. Radio includes a
speaker mic and car battery
charger. It runs 5 watts max
and has 200 memories.

Mark Carter / KD8YUY
(517) 231-3108

\$.02 / Ft.
Rope for sale.

Gregg Wesley / KD8PA
(517) 614-6573

Aluminum Tubing, Masts,
and other odds and ends
for antenna building.

Steve Lyon / W8RQS
(517) 641-4543

Impedence transformer
for use in microphones.

Jason McLaughlin / KC8RBK
(517) 712-0478 or
kc8rrrbk@gmail.com

\$150 Ea.
(2) Tytera MD-380 DMR
Handheld Radios

Brian Monaghan / KC8QWJ
(517) 219-8183

FREE
(4) 1.2 meter Satellite Dishes

Jim Hein / K8UHF
k8uhf@sbcglobal.net

\$675

Icom IC-746 Transceiver HF/6/2
meters, all mode, 100 watts
on all bands, includes hand
mic HM-36, Voice Synthesizer
UT-102, power cable, built-in
auto tuner, Owners and Service
Manuals, and Original Box.

\$100

Icom IC-SM-8 Desk Microphone,
includes two cables, original
box, and manual.

\$750

Both Radio and Desk
Microphone together.

\$12

Radio Shack 21-533 SWR,
Field-Strength Meter, 3-30
MHz, Handles up to 1,000
Watts, Like New with
original box and manual.

\$300

PC Electronics ATV Transceiver
TC70-20S, 20 watts, includes
video generator for playing
video from USB, SD Flash
Cards, etc., Color Camera
and 12vdc power cube, with
a Verifocal lens, wall mount,
5" color TV/monitor, will run on
AC or DC, cables, and manuals.

\$550

For the entire ATC Transceiver
package above plus a Mirage
D1010 ATVN Amplifier. 100watt
amp, 50 watt average, video
output with only 1 watt drive.

CLASSIFIEDS

Ed Hude / W8EO
ebhude@yahoo.com
 517-676-4480 between
 9AM and 7PM

NEW

\$550

Kenwood TS-850-S HF transceiver with built in antenna tuner, with Kenwood PS-52 AC Power Supply, Kenwood Sp-31 matching speaker, Kenwood MC-50 desk microphone, 1 -pair of Drake headphones, with instruction manual. Clean, non smoker home

NEW

\$20 or Trade

Heathkit DX-100. Late 1950's era hf transmitter. This radio is being sold as a collectors piece and not operational until it is reconditioned.

THE FOLLOWING EQUIPMENT LIST IS FOR SALE. THE EQUIPMENT SALE IS FOR (AAR5CA) - JIM HARVEY'S ESTATE

MANUFACTURER	EQUIPMENT	DESCRIPTION	SERIAL NO.	YR MANUF.	SALE PRICE	NOTES
KENWOOD	TS-570S	160-6M HF XTR	90400014	2007	\$ 700	
KENWOOD	TS-570D	160-10M HF XTR	60700019	2004	\$ 600	
KENWOOD	TS-480 DSP SAT	160-6M HF XTR	300059	2008	\$ 1,000	
KENWOOD	TR-9000	2M ALL MODE XTR	110344	1982	\$ 195	
KENWOOD	TM-2550A	2M FM XTR	80383	2006	\$ 95	
KENWOOD	TM-D700 (DATA)	144/440 MHZ FM XTR	60100177	2004	\$ 200	
KENWOOD	TH-D72A	2M XTR W/ CHARGER & SPEAKER MIC	B1900040	2013	\$ 335	
KENWOOD	TH-79A	DUAL BAND W/ CHARGER	10900005	1995	\$ 180	
KENWOOD	TH-315A	220 FM XTR	10500038	1990	\$ 65	NO ANTENNA, NO CHARGER, GOOD BATTERY
KENWOOD	SH2P4	SPEAKERS	NA	NA	\$ 10	
ICOM	IC-2200H	2M FM TX, FM & AM RX XTR	510990	2012	\$ 110	
ICOM	IC-2100H	2M FM XTR	66904	2006	\$ 95	
ALINCO	DR-235T	220 FM XTR	T10073	2006	\$ 195	
MIRAGE	B108	2M 10-80W FM-SSB AMP	2397-480	1992	\$ 125	
SCS	PTC II USB	MODEM	NA	2007	\$ 750	
TIGERTRONICS	SIGNALINK USB	AUDIO MODEM	NA	2012	\$ 75	??
TIGERTRONICS	SIGNALINK USB	AUDIO MODEM	NA	2012	\$ 75	
HEIL	HEADSET	HEADSET	NA	NA	\$ 50	ROUGH SHAPE
MFJ	MFJ-941E	VERSA TUNER 2	NA	4/2/1996	\$ 75	

If you are interested in purchasing any of this equipment or would like more information on a specific piece, please contact Geff / N8CE at 517-626-6044 or richard0g@frontier.com.

If you are calling Geff, please make sure you are calling from a line that has a name attached to it, and not one that is "blocked". He will not be able to receive the call if you do.

Greater Lansing Nets

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 **"Ladies Tea Time Net"** meets every Tuesday night at 7:00 pm on the 145.39 repeater (PL 100.0), with Net Coordinator Janine Lieber/KK6GYM.

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.

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 Clyde Tompkins/K8CPT.

The **"MSUARC Friends and Info Net"** meets every Thursday evening at 7:00pm on the 145.39 repeater (PL 100 Hz), with Net Coordinator Gregg Mulder/WB8LZG. The first half of the net is time for chatting, while the second half is for Morse Code practice. If you wanted to learn Morse Code, but didn't know how to go about doing it, then please join us. The speeds are kept down to a minimum, to make it easier to learn.

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.

2	5	1	9	8	4	7	6	3				4	9	5	8	7	1	3	2	6
6	4	7	2	5	3	8	1	9				1	7	6	9	2	3	4	8	5
9	3	8	1	6	7	5	2	4				3	8	2	5	4	6	7	1	9
7	6	5	8	2	9	3	4	1				7	4	1	3	5	9	2	6	8
8	2	3	4	1	6	9	5	7				2	3	9	4	6	8	1	5	7
4	1	9	3	7	5	6	8	2				6	5	8	7	1	2	9	4	3
1	7	2	5	9	8	4	3	6	8	5	1	9	2	7	6	8	4	5	3	1
3	8	6	7	4	1	2	9	5	6	7	4	8	1	3	2	9	5	6	7	4
5	9	4	6	3	2	1	7	8	2	9	3	5	6	4	1	3	7	8	9	2
						7	2	1	5	4	9	3	8	6						
						5	8	9	3	2	6	4	7	1						
						6	4	3	7	1	8	2	9	5						
7	3	1	4	6	9	8	5	2	1	3	7	6	4	9	5	8	2	1	3	7
9	6	8	5	7	2	3	1	4	9	6	2	7	5	8	6	1	3	4	2	9
2	5	4	8	1	3	9	6	7	4	8	5	1	3	2	7	4	9	8	6	5
1	4	2	3	5	7	6	9	8				5	7	3	9	6	4	2	1	8
6	7	3	9	4	8	1	2	5				2	6	1	3	7	8	5	9	4
8	9	5	6	2	1	7	4	3				9	8	4	1	2	5	3	7	6
5	1	6	7	8	4	2	3	9				8	1	7	2	5	6	9	4	3
4	8	9	2	3	6	5	7	1				3	2	5	4	9	7	6	8	1
3	2	7	1	9	5	4	8	6				4	9	6	8	3	1	7	5	2

CMARC Officers and Appointees

President / Webmaster
Tom Rocheleau, WA8WPI

Vice President / Youth Liaison
Russ Fitzgerald, N8FZ

Treasurer
John Doornhaag, KD8NNQ
(517) 882-5406

Secretary / Scope Editor
Chris Ranes, NS8Q
(517) 487-8376

Director
Ted Sadilek, WA8MFQ
(517) 881-6093

**Director /
Salvation Army Liaison**
Clyde Tompkins, K8CPT
(517) 927-3801

Under 22 Director
Sam Fitzgerald, N8FRP

Cards & Flowers
Jane Hosford, KC8FSK
(517) 515-7610

Club Contact
Don McLain, KB8RAD
(517) 701-9745

Club Historian
William Cote, WD8NYW

Antenna Projects Chairman
Gregg Mulder, WB8LZG

Lansing ARPSC Liaison
Jim Hannahs, KC8QWH

QSL/Awards Manager
Don DeFeyter, KC8CY
(517) 641-4533

Photographer
Kenneth Hazlett, N8BVV
(517) 348-5513

Meetings
Held Monthly on the second
Friday of the month at:
Salvation Army-Capital Area,
701 W. Jolly Rd, Lansing
at 7:00 PM.

Board Meetings are held the first Saturday of the month at Denny's beginning at 5:30 pm.

CMARC Calls: W8MAA & W8PLP

LCDRA Officers and Appointees

President
John Imeson, N8JI
(517) 449-1517

Vice President
Don Tillitson, WB8NUS
(517) 321-2004

Secretary
Ron Harger, WD8BCS
wd8bcs@arrl.net

Treasurer
Jeff Oberg, KB8S XK

Director
Jan Bradfield, KC8BFK
(517) 202-1779

Director
Don McLain, KB8RAD
(517) 701-9745

Director / Membership Chair
Michael Boensch, W8MKB

Repeater Trustee
Dennis Boone, KB8ZQZ

Meetings
Held Quarterly on the third
Thursday of the month at:
Fire Station #48,
Marshall St, Lansing
at 7:00 PM.

**LCDRA Call:
W8BCI**

The Scope is a monthly joint publication of The Central Michigan Amateur Radio Club and the Lansing Civil Defense Repeater Association. Please send all articles, classified ads, or other Information to the editor, Chris Ranes, N58Q, at cmarscope@gmail.com.

The deadline for each issue is midnight on the 20th of the preceding month.



44th Annual

Amateur Radio

Swap-N-Shop

SATURDAY

February 11th, 2017

8am-noon

**Door
Prizes!**

Admission \$5.00
Table \$8.00

**VE
Exams
9 am**

Immaculate Conception
Elementary School
218 Vine Street
Traverse City, MI 49684

Talk-In
146.860 (-)
W8TCM / R
PL 114.8 / YSF

www.CherrylandARC.com

For information or table reservations, call:
Joe Novak W8TVT at (231) 947-8555
([or click here](#))

VE Exam Info: Contact Hope, AA8SN:
hopeaa8sn@gmail.com or 231-218-0622

Friday Night "Eyeball QSO Gathering" Social Event

6-7 p.m. at the Traverse City Elks Club #323

625 Bay Street, near the US-31/M-72 junction.

NO SALES!! This is a social event only. Great for those travelling up Friday Night, also a fun night for locals to meet and greet. Cash bar and food available.



**An ARRL-Sanctioned
Swap Event**



Livonia Amateur Radio Club

Talk-in
145.35 with 100 PL
or 146.52 Simplex

46th

GREAT
VENDOR
ACCESS

ANNUAL

SWAP-N-SHOP

Buy and Sell Amateur Radio
Gear, Computers, or
Electronic Test Equipment

Civic Park Senior Center
15218 Farmington Rd.
Livonia, MI

(SE corner of Farmington
Rd. and 5 Mile Rd.)



Livonia ARC

P.O. Box 51532

Livonia, MI 48151-0532

Now take care of EVERYTHING

via the LARC Online Store!! (pay pal)

<http://www.livoniaarc.com/larcstore>

Call (734) 941-5043

or e-mail us at k8uns@arrl.net

*Lots of Tables
(8' tables for \$16 each
or \$17 pay pal
if paid in advance or
\$20.00 if available and
paid at the door)

*Door Prizes

*Food Concession

*Tickets \$5.00 or \$6
pay pal

Sunday, February 19, 2017 8:00am - 12:00pm



Central Michigan Amateur Radio Club

W8PLP/W8MAA

Membership Form



For new CMARC applicants: Please complete all sections.

For existing CMARC members: Please include your Name and Call Sign along with only the information you would like changed.

Mail completed form to Membership Chairman (see address below) or take to Club meeting for processing. Please include payment if applicable. (Checks or Money Orders should be made payable to 'CMARC').

John Doornhaag | 1165 S. Ainger Rd. | Charlotte, MI 48813-9540

Membership Type		<input type="checkbox"/> New	<input type="checkbox"/> Renewal
Full:	<input type="checkbox"/> Annual Dues: \$20.00 <i>Includes voting rights and an annual subscription to The Scope.</i>		
Associate:	<input type="checkbox"/> Annual Dues: \$5.00 <i>Includes an annual subscription to The Scope but NO voting rights.</i>		
New Licensee:	<input type="checkbox"/> Annual Dues: 1st Year Free		
Under 18:	<input type="checkbox"/> Annual Dues: Free		

Contact Information	
First Name: _____	Last Name: _____
Call Sign: _____	License Class: _____ Phone #: _____
Address: _____	Apt/Unit: _____
City: _____	State: _____ Zip Code: _____
Birthday: _____	Anniversary: _____
Email: _____	Sign up for the List Serv: <input type="checkbox"/> Yes <input type="checkbox"/> No
<i>Note: Email is used by club officers to communicate club business and may appear in the club directory for use by club members. CMARC does not share/sell contact information to other parties.</i>	

Club Communications	
Newsletter Preference (select only one option)	<input type="checkbox"/> I will download from the web site.
	<input type="checkbox"/> Please mail to my address (Note: Direct mailing increases postage costs.)
ARRL Affiliation	<input type="checkbox"/> I am an ARRL member



Lansing Civil Defense Repeater Association

Membership Form

For new LCDRA applicants: Please complete all sections.

For existing LCDRA members: Please include your Name and Call Sign along with only the information you would like changed.

LCDRA oversees the operation and maintenance of all Lansing Area repeaters. Use of the repeaters does NOT require LCDRA or CMARC membership, but your support is welcome and appreciated.

Mail completed form to Membership Chairman (see address below) or take to a meeting for processing. Please include payment if applicable. (Checks or Money Orders should be made payable to 'LCDRA').

Michael Boensch | 1897 Sunnymede Ln | Lansing, MI 48906-1356

Membership Type		<input type="checkbox"/> New	<input type="checkbox"/> Renewal
Full:	<input type="checkbox"/> Annual Dues: \$15.00 <i>Includes voting rights and an annual subscription to The SCOPE.</i>		
Family Mbrs:	<input type="checkbox"/> Annual Dues: \$7.50 ea. No. of Family Members: _____		
ARRL Affiliation	<input type="checkbox"/> I am an ARRL member		

Contact Information	
First Name: _____	Last Name: _____
Call Sign: _____	License Class: _____ Phone #: _____
Address: _____	Apt/Unit: _____
City: _____	State: _____ Zip Code: _____
Birthday: _____	Anniversary: _____
Email: _____	
<i>Note: Email is used by club officers to communicate club business and may appear in the club directory for use by club members. <u>LCDRA does not share/sell contact information to other parties.</u></i>	

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

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