



The Scope

Central Michigan Amateur Radio Club

Lansing Civil Defense Repeater Association

January 2016
Volume 16
Issue 1

January CMARC Meeting

Greetings CMARC Family and Friends,

At our first CMARC Meeting for the year 2016, we will be introducing the new members of CMARC's Board of Directors as well as soliciting help from the membership for future Club activities. Please consider which CMARC activities YOU want to see this year and which ones YOU are willing and able to help with. Possibilities include classes (licensing, Morse code, project building, antennas, etc.), SATERN Membership, transmitter hunts, programs for meetings, and so forth. Please consider what skills and resources YOU have that you could contribute to the Club. By the way, the January meeting is a great time to renew your membership for the New Year!! See you ALL there!!

73,
Don McLain/KB8RAD

"First Meeting of 2016"

When: CMARC Monthly Meeting,
7:00 pm, Friday, January 8, 2016

Where: Salvation Army South Corp
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 (517) 694-0812 or KB8RAD@arrrl.net.

Happy
New Year
★2016

News in Brief

National Parks On the Air (NPOTA):

This is the ARRL's year-long event which began on New Year's Day. Activity has been reported on HF and SO-50 Satellite. Look for future information in the Scope.

ARRL Complains to FCC about Electronic Lighting Ballasts:

Letters were sent to the FCC enforcement bureau, citing Wal-mart and Lowes, for the sale of non-consumer RF lighting ballasts to homeowners, claiming they were safe to use in residential settings.

Ramsey Kits Calls it Quits:

After more than 40 years in the inexpensive electronic kit business, they have decided to throw in the towel, effective January 1. They wish to thank all of their customers and fellow hobbyists.

USS Indianapolis CV35 Needs Another Transmitter:

The CV35 Radio Room volunteers are looking for a once plentiful TDE Transmitter. An effort is underway to preserve a working WW2 Radio Room. Many amateurs saw this as a good Transmitter to have.

January Birthdays

1/2 Vedder Friedrich
 1/7 Charles Culton / WD8PVS
 1/8 Felimon Brazas, Jr.
 1/12 Edward Hartwick / KC8NQM
 1/12 Tom Cain / KB8ZL
 1/17 Leota Strobel / KD8SQD
 1/20 R.E. Lindberg / WA8ZWR
 1/23 Betty Hunsucker
 1/23 John Ingraham / NG8L
 1/23 Mary Tillitson
 1/24 Pam Denomme / KB8PSF
 1/31 Kim Treleaven

Upcoming Meetings

ARPSC



The ARPSC meeting for the month of January is at 7:00pm on Monday, January 18th. We will be meeting in Mason at the Ingham County Sherrieff's Department off Curtis Rd and Cedar St.

For information about the ARPSC please check out our website at www.lansingarpsc.com

VE Exam Session

Lansing, MI

Date: **1/9/16**
 Time: 11:00 PM (Walk-ins allowed)
 Sponsor: Ingham County VE Group
 Contact: Don McLain / KB8RAD
 (517) 694-0812
 Email: KB8RADon@aol.com
 Location: Lansing Fire Station #44
 Community Room
 1435 E Miller Rd
 Lansing MI 48911-5322

ATTENTION CW Class Candidates

Tom Rocheleau / WA8WPI has informed us that he has accepted a new job and will be postponing the CW class until further notice.

Please check back for further updates as they become available.

Treasurer's Report

John Doornhaag / KD8NNQ - CMARC Treasurer

Bank Balances for Dec. 2015

Primary Share Acct. (Humphreys Fund)	\$1,092.29
Business Checking	\$4,544.29
Net Worth	\$6,118.26
Youth Fund Balance*	\$253.68
Building Fund (Club Station)	\$9.09
Field Day	\$472.59
* Separate from CMARC Funds	

REMEMBER

Your nominations for the Ziegenbein Award are due March 15th. This year's Senior Chairman of the Ziegenbein Committee is John Hosford/ KC8QZB.

Send your e-mail nominations with a subject line of "**Ziegenbein Nomination**", to jon.jan44@hotmail.com.

If you prefer to use snail mail:
 John Hosford
 7057 Kieppes Court
 Lansing, MI 48911

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

See Page 12 for the official guidelines.

CMARC's 2015 Christmas Potluck Wrap-Up

By Julie McLain/KB8ZXR



There were about 60 people in attendance at our December 11th “CMARC 2015 Annual Christmas Potluck”. Everyone really had a great time as we visited with each other and enjoyed all the delicious food everyone brought to the Party! A big “Thank You” goes out to everyone who attended and another big “Thank You” for all the goodies you brought! There were so many different things – Roast Turkey and Dressing, Potato Salad, Macaroni and Cheese, Meatballs and Goulash to name a few. And even though Bob K8RDN and his wife Ann could not be there because they had a church Christmas Party to attend, Ann still delivered her famous Hot German Potato Salad for all those who were hoping she would!! There were desserts galore of various kinds including Gloria Cote’s

famous Peanut Butter Cake that Jane KC8FSK is now making in Gloria’s place. It is the truth when I say NO ONE went home hungry!

In addition to the festivities, we also had our Annual Club Elections to fill the Director positions being vacated, plus the Under 22. The newly elected Board met at a Special Board Meeting on Saturday, December 19th to decide which positions they would hold for the coming year. Your New Board for 2016 is: President Julie McLain KB8ZXR; Vice President Tom Rocheleau WA8WPI; Secretary Jane Hosford KC8FSK; Treasurer John Doornhaag KD8NNQ; Director Chris Ranes NS8Q; Director Russ Fitzgerald N8FZ and Under 22 Director Sam Fitzgerald N8FPR.

Ladies Tea Time Christmas Party Wrap-Up



We all had a really fun time at our annual Ladies Tea Time Christmas Party that was held on Saturday, December 5th. Most of us arrived at 11am so we could visit with each other and catch up on what had been going on during the summer. For our meal we each brought a different kind of hot or cold salad, and trust me, they were really good!! We also had some homemade goodies to snack on while we played Bingo. Our Bingo game started off a little slow at first, but as more and more numbers were called we soon had several Ladies at a time with “double Bingos” and so every Lady walked away with an armload of Bingo prizes. It was a very enjoyable day and as we said goodbye we were all talking about getting together again for our Saturday, January 23rd Luncheon. (We’ll be going to Bob Evan’s Restaurant at 12:30pm, 900

American Rd. in South Lansing.) Remember, this is for all our Ladies, whether you’re licensed or not. Please RSVP by Friday, January 22nd if you plan to attend and I hope you will, because we always have such a good time getting together—and I’m sure you’ll enjoy it, too! If you have any questions just call or email me: Julie McLain, KB8ZXR at (517) 694-0812 or KB8ZXR@aol.com.



JANUARY'S TEA TIME LADIES' DAYS!!

January 17th – Leota Strobel's Birthday!!
 January 23rd – Mary Lou Tillitson's Birthday!!
 January 23rd – Betty Hunsaker's Birthday!!



JANUARY'S LADIES TEA TIME LUNCHEON!!

“Hello” and a very Happy New Year 2016! For our first Ladies Tea Time Luncheon of the New Year, I hope you will all join me on Saturday, January 23rd at 12:30pm! We will be meeting at “Bob Evan’s Restaurant” located at 900 American Road in South Lansing. Remember Ladies, you don’t need a Ham License to take part in our get-togethers. You only need to enjoy good food, good fun and good fellowship! Please let me know by Friday, January 22nd if you’re planning to attend (517.694.0812 or KB8ZXR@Aol.com). I hope you will, because we always have such a good time getting together—and I’m sure you’ll enjoy it, too!

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, right AFTER the “Ladies Only” portion of the Net!! So, pour yourself a cup of hot tea (or cocoa like the snowman), key 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
 (517) 694-0812 or KB8ZXR@aol.com
www.centralmiarc.com

CMARC Classifieds

Please call Gregg Mulder/WB8LZG **AFTER 5PM** at 517-646-6257. Offers are accepted!

Please contact Matt Beha/N8BPI by email mattbeha@hotmail.com or call 517-646-6925 and leave a message

- Hamarlund SX117 Receiver (w/ clock) Unknown Condition **\$75**
- Kenwood TM231 2-meter Mobile Works Great **\$50**
- Kenwood 12-amp Power Supply Works Great **\$50**
- Kenwood 2-meter Hand Held Works Great **\$40**
- Icom 2m/440 Hand Held *Works great but needs new battery* **\$60**

- Yaesu FT-747GX transceiver, original MH-1 B8 mike, matching FP-757 HD Power Supply, power cord. Working condition; recently tested. Original owner, non-smoker. **\$395**
- Hustler HF Mobile antenna mast and resonators for 10, 15, 17, 20, 40 & 80 meters. Includes mount and spring. Excellent condition. **\$79**
- Nikon D3100 14.2 Megapixel SLR camera, 18-55mm Nikkor lens & 55-200mm Nikkor lens. Like new. 8GB SDHC card included. **\$199**

Remaining Items from the Estate of Louis Larche/KD8BWL

The following items of equipment from the station of Louis Larche / KD8BWL, SK, are still available. Listed is the suggested price for each. Please make an offer if you are interested. All the proceeds will go to Barb, Louie's XYL. Contact me at 517-896-3570 or kfaiver@sbcglobal.net. -- Ken / W8HNI

- Kenwood SP-230 ham speaker, with audio filters -- **\$75**
- Kenwood AT-230 antenna tuner, for use with TS-830, TS-530, etc. 200 Watts, 1.8 to 30 MHz, 20 & 200 watt scales -- **\$120**
- Kenwood VFO-230 digital synthesized VFO, for split frequency. 20 Hz steps. 5 memories. Designed to connect to TS-830s or TS-530 -- **\$135**
- Radioshack HTX-420 Handheld FM transceiver -- 3 to 4 watts -- 2M & 70cm -- with AC adapter. Includes electronic compass. (needs new battery). -- **\$65**
- Radioshack Pro-97 Scanner Receiver -- triple trunking -- 1000 channel. With AC adapter. (battery not included). Good condition -- **\$75**
- RCA VWV-120A voltmeter -- AC power line monitor -- **\$12**
- Leader LPM-885 SWR/power meter -- 3 ranges: 20, 200, 1000 watts
- Pyramid CB-1000 speaker -- mobile speaker
- RL Drake 1525 EM microphone -- mike with touch tone ham keypad -- **\$5**
- MFJ-418 Morse Code Tutor -- w/ LCD display, pocket sized, for learning (improving) CW skills -- **\$40**
- Low-pass filter -- no specifications -- **\$3**
- 3-shelf wooden structure, designed to hold ham equipment (no charge. Come and pick up)

What Would Wayne (Green) do?

By Dan Romanchik / KB6NU



Wayne Green was a crackpot...but he was a great one.

For those of you who aren't as old as I am, Wayne Green, W2NSD, was not only the publisher of 73 Magazine, but also the founder of Byte and

other PC magazines in the early days of personal computing. In 73, he would write these long, rambling editorials. Often, he would take the ARRL to task, criticizing what he thought to be some lunk-headed policy or another.

Just as often, he'd be encouraging hams to take up some new technology. He was, for example, one of the guys driving hams to set up repeater systems.

He would often exhort hams to get started in their own technology-related business. I remember one column where he urged hams to get involved in the home-security business. And, of course, when personal computers became popular, he wrote that hams should think about getting into that business. His reasoning was that our knowledge of electronics would stand us in good stead in those businesses.

Today, I think that he would be telling us to get more involved in with technologies like the Internet of Things, WiFi, or whatever other wireless technology is coming down the pike. "Wireless" is the key word here. These networking technologies are based on good, old radio, and who better to push these technologies forward than guys like us who understand radio.

This point was brought home to me last week as I was interviewing an executive of a wireless company for an article that I'm writing. He said to me that many of the companies he works with are taking a software-centric view to their wireless products. They simply use the reference designs provided by the wireless chip makers and expect those designs to work flawlessly in their products.

While they often do, he gave me an example where simply

using the reference design was a colossal failure. In one case, he said, the company mounted the board inside a metal enclosure. Since the antenna was part of the printed-circuit board, the enclosure acted like a shield, and of course, the device had little or no range.

He went on to say that he thought that there was a real shortage of experienced RF guys in the wireless industry. Does that sound like an opportunity to you? It does to me. So, I'm going to make like Wayne Green here and exhort all you guys to get out there and take advantage of it.

This is not only a business opportunity, but a way for amateur radio operators to fulfill a couple of the "purposes" of amateur radio, as set forth in Part 97.1 of the amateur radio regulations. Part 97.1(b) says that one of the purposes of the Amateur Radio Service is "Continuation and extension of the amateur's proven ability to contribute to the advancement of the radio art." According to Part 97.1(d), another purpose of the Amateur Radio Service is "Expansion of the existing reservoir within the amateur radio service of trained operators, technicians, and electronics experts."

Let's do it! •

When he's not ruminating on the latest wireless technologies, KB6NU likes to make use of some vintage wireless technologies by working CW on the HF bands. He's also a prolific blogger (www.kb6nu.com) and the author of the "No Nonsense" amateur radio license study guides (www.kb6nu.com/study-guides). If you have a comment or a question, email him at cwgeek@kb6nu.com.

The Dumbing Down of Amateur Radio

By Gregg Mulder, WB8LZG



I'm becoming more and more disgusted with the Dumbing down of our hobby. This used to be a hobby where science and technology were at the forefront. You had to study electronic theory and fundamentals in order to gain the knowledge to progress to the next level of license. Some degree of competence was required in order to advance up the ladder. These days however, if someone says, "it's too hard" then it becomes "politically incorrect" to require anyone to actually learn anything. This is becoming painfully apparent when you look at what our school systems are doing to make sure that "No student is left behind!" At every level, our educators are making it easier to be stupid, and it's Ok! Even where I work at the college level, they start out ECE101 (freshman electronics) playing with Legos! LEGOS! What ever happened to Ohms Law? Even worse, our universities are charging over \$400 per credit hour to "play with Legos". Now don't get me wrong, I'm not advocating getting rid of Legos. I played with them also. In 4th and 5th grade! They are a wonderful toy for young children to learn many fundamental lessons about mechanical properties. However, at age 12 or 13 it's time to "put away the toys" and start teaching REAL SCIENCE! We have seniors graduating with degrees in electronics who cannot tell me what the formulas are for Inductive reactance, or Resonance or even Impedence! They are lost without their "smart phones". Apparently, to the colleges in America, your money is more important than your education. In all fairness, I have also been proud to help educate some of the brightest young minds in the world, right here at MSU. Yes, there is hope for us yet, however the problem is universal throughout our educational system.

This "dumbing down" is spreading rapidly to the hobby I love. Amateur Radio should be a "lifelong" quest for more knowledge. I've been a ham now for near 45 years. Do I know everything about radio? Not even close! I learn something new nearly every day. Whatever happened to "The advancement of the radio art"? These days a new ham prospect memorizes all the questions, takes the exam, gets

a "ticket" and hangs out on 2m FM, and call themselves HAMS. All without ever having to learn anything at all about radio or electronics. Even the ARRL is endorsing this. How are our children going to compete with the rest of the world? What happened to raising the bar?

Case in point. I have been reading the sample Exam questions each month that are published in the SCOPE. Every 10 or 12 questions I read, I find one that just makes me want to scream. I'll give you an example.

Tech Pool T3C11: Q: Why do VHF and UHF radio signals usually travel somewhat farther than the visual line of site distance between two stations! A: The earth seems less curved to radio waves than to light.

Pure malarkey! "The earth SEEMS less curved". Who comes up with this stuff? Even in the BOZO school of electronics, Butchie Boy and Belinda are doing cartwheels! Does the earth SEEM more curved if you're on a hill, or SEEM less curved if you're in a valley? Is there no curve if you're on a straight road? Was it more curved for Christopher Columbus?

This isn't rocket science here. It's 6th grade science class science! Whether it's a radio wave or a light wave, the earth IS curved period! And the term for this scientific phenomena, is called REFRACTION! Hmmm, that's a perty big word. Well perhaps we should just do away with it. After all, we'll just call it something simple, print it, and it will be fact right? Wrong! Time to start teaching real electronics again. I for one will not buy into the dumbing down of my hobby and my profession. Those of you who agree should start now to reverse this trend and help make America great again. I for one, will not stand idly by and watch naves twist words to make a trap for fools. What will YOU do?

With apologies to Rudyard Kipling. •

73, Gregg WB8LZG

CMARC Board Meeting

December 10, 2015

❖ CALL TO ORDER:

- President Julie McLain/KB8ZXR called the meeting to order at 6:37 pm with the following board members in attendance: Vice President Tom Rocheleau/WA8WPI, Secretary Jane Hosford/KC8FSK, Treasurer Jerry Waite/KD8GLN, Director Don McLain/KB8RAD, Director Chris Ranes/NS8Q and Under 22 Director, Sam Fitzgerald/N8FPR.

❖ SILENT KEYS:

- George Haddad/N8PKC – November 25, 2015

❖ CARDS & FLOWERS REPORT:

- A get-well card was sent to Gloria Cote, wife of Don Cote/KD8BD

❖ TONIGHT'S MEETING:

- Vote for three new Board members and the Under 22 Director, plus our annual Christmas party.

❖ MISCELLANEOUS UPDATES:

- The new CMARC logo is complete and the cost for that was \$25.00.
- We collected 636 lbs. of food for the Food and Donation drive we had for the Salvation Army. Great job everyone!! Thanks to everyone who participated this year.
- Don/KB8RAD made a motion that we have a Food Drive for the Salvation Army twice a year (March/April and September/October). The motion was seconded by Jerry/KD8GLN and approved by all.
- We received a thank you card from Lt. King of the Salvation Army
- We received a thank you card from the Docents at Potter Park Zoo and also from the Executive Director at Potter Park Zoo.

❖ MEETING ADJOURNMENT:

- Motion to adjourn made by Don/KB8RAD, seconded by Sam/N8FPR, and approved
- Meeting adjourned at 7:05 pm.



Here is an enlarged version of the new CMARC Logo. The inner diameter has been enlarged slightly, and the required Registered "R" was added to the lower right of the ARRL diamond.

Respectfully submitted,
Jane Hosford/KC8FSK-Secretary

General CMARC Meeting

December 10, 2015

❖ **CALL TO ORDER:**

- President Julie/KB8ZXR brought the meeting to order at 7:10 pm.
- If you do not have your own nametag, there are some available. Please use so we know who everyone is.
- The meeting began with the Pledge of Allegiance. The flag was held by Sam/N8FPR.

❖ **SILENT KEY REPORT:**

- George Haddad/N8PKC
- A moment of silence for our silent keys.

❖ **ATTENDANCE:**

- There 51 people who attended.
- Our visitors included: Michael Pedersen, John Winn, Andrew Wellwood, Bill Thompson, Lt. King from the Salvation Army, Jessica Weaver, Vicki Weaver, Mary Tillitson, and Miss Abby Beuchert.

❖ **NEW LICENSES, UPGRADES AND VANITY CALLS:** None.

❖ **CARDS AND FLOWERS REPORT:**

- A get-well card was sent to Gloria Cote, wife of Don Cote/KD8BD

❖ **INTERESTING DX CONTACTS:** None

❖ **PLEASE PAY YOUR DUES:** NEW HAMS GET ONE YEAR FREE MEMBERSHIP

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

❖ **NEW BUSINESS:**

- A motion to accept the November secretary's report as printed in the December Scope was made by Bob/K8ZAP, seconded by John/KD8NNQ, and approved.
- A motion to accept the November treasurer's report as printed in the December Scope was made by Don/WB8NUS, seconded by Leota/KD8SQD, and approved.
- We collected 636 lbs. of food for the Food and Donation drive we had for the Salvation Army. Great job everyone!! Thanks to everyone who participated this year.

- We received a thank you card from Lt. King of the Salvation Army
- Starting in 2016, we will be conducting a food and donation drive for the Salvation Army twice a year, March/April and September/October.
- We received a thank you card from the Docents at Potter Park Zoo and also from the Executive Director at Potter Park Zoo.
- Leota/KD8SQD donated \$100.00 to LCDRA from selling the push/pull sticks that were the Ladies' gifts from the Ladies' Night Banquet. John/KD8NNQ donated and cut the wood, Leota/KD8SQD painted each stick and Bob/KB8DQQ put the finish on them. Thanks Leota.
- Bob/KB8DQQ sells candy bars and donates the money to LCDRA.
- Don/WB8NUS thanked everyone for his birthday party in November and mentioned the Quarter Century Wireless Association (QCWA) dinner, which will be January 30, 2016 @5:00 @ the Delhi Cafe. Anyone may attend; you don't have to be a member of QCWA. If you plan on attending please let Don/WB8NUS know.

❖ **UNDER 22 REPORT:** None.

❖ **50/50:** Brian/KD8ONC won \$25.50.

❖ **PROGRAM:**

- We had our annual Christmas party and voting for the 2016 Board. Nominees were Russ/N8FZ, Julie/KB8QZB, Don/KB8RAD, John/KD8NNQ, Jimmy/KD8IWQ and under 22, Sam/N8FPR.
- We had our annual Christmas party and voting for the 2016 Board. Nominees were Russ/N8FZ, Julie/KB8QZB, Don/KB8RAD, John/KD8NNQ, Jimmy/KD8IWQ and under 22, Sam/N8FPR.
- The Board will have a special meeting to determine who gets what position for the 2016 Board.
- Thanks everyone for all the delicious food that was brought tonight for our Christmas party.

❖ **MEETING ADJOURNMENT:**

- Motion to adjourn made by John/KC8QZB, seconded by Matt/W8MAT, and approved.
- With all business concluded, the meeting was adjourned at 8:37 pm.

Respectfully submitted,
Jane Hosford/KC8FSK-Secretary

Special Board Meeting

December 19, 2015

- ❖ Present: Julie McLain/KB8ZXR, Don McLain/KB8RAD, Chris Ranes/NS8Q, Jane Hosford/KC8FSK, Jerry Waite/KD8GLN, John Doornhaag/KD8NNQ, Sam Fitzgerald/N8FPR, Tom Rocheleau/WA8WPI, and Russ Fitzgerald/N8FZ
- ❖ The out-going and in-coming Board members met at RAD's on December 19, 2015 @ 5:41 pm to decide the 2016 Board positions. They are:
 - President: Julie McLain/KB8ZXR
 - Vice President: Tom Rocheleau/WA8WPI
 - Treasurer: John Doornhaag/KD8NNQ
 - Secretary: Jane Hosford/KC8FSK
 - Director: Chris Ranes/NS8Q
 - Director: Russ Fitzgerald/N8FZ (also Youth Liaison and Chairman for the Clubroom Cleanup Committee)
 - Under 22: Sam Fitzgerald/N8FPR
- ❖ New to change the membership forms to reflect the new treasurer.
- ❖ Jerry/KD8GLN made a motion, seconded by John/KD8NNQ to accept the new Board positions, approved by all.
- ❖ January's meeting: Instead of passing out a questionnaire, ask the members what they would like for the upcoming meetings, speakers, classes, etc.. Need to get the members more involved. Possibly ask questions from QST. Think for fun ways to get people involved.
- ❖ Possible speakers: William Taggart, Bill Blick, Ron St. Laurent

- ❖ For 2016, we need to finish the 501(c)3 and the club directory
- ❖ SATERN: Need someone to fulfill that position
- ❖ Salvation Army Advisory Council: Jerry/KD8GLN has said that he would continue as liaison for the Salvation Army and stay on the advisory council.
- ❖ CW Classes: Start on Tuesday, January 7 from 7-9pm at the Salvation Army, for six weeks
- ❖ For January - Have the Board make a list of questions to ask the membership, send to Julie/KB8ZXR for her to compile
- ❖ Possibly send a letter to former members asking why have not renewed their membership, see what we can do to bring them back into the Club. Have check boxes for reasons - forgot, not interested.
- ❖ Need a mission statement for 501(c)3: have Board members write a statement and email to Julie/KB8ZXR.
- ❖ Meeting adjourned at 6:37 pm.

Respectfully submitted,
Jane Hosford/KC8FSK-Secretary



"PRACTICE AMATEUR RADIO EXAMS"
Sponsored by the "Ingham County VE Group"
VE Julie McLain KB8ZXR

Technician Class 2014 Pool

1.) Question T5D04 - What is the resistance of a circuit in which a current of 3 amperes flows through a resistor connected to 90 volts?

- A. 3 ohms
- B. 93 ohms
- C. 270 ohms
- D. 30 ohms

2.) Question T3C10 - What is the radio horizon?

- A. The distance from the ground to a horizontally mounted antenna
- B. The shortest distance between two points on the Earth's surface
- C. The farthest point you can see when standing at the base of your antenna tower
- D. The distance over which two stations can communicate by direct path

3.) Question T2C04 - What do RACES and ARES have in common?

- A. They represent the two largest ham clubs in the United States
- B. Neither may handle emergency traffic supporting public service agencies
- C. Both organizations may provide communications during emergencies
- D. Both organizations broadcast road and weather information

General Class 2015 Pool

1.) Question G8C09 - What does the number 31 represent in "PSK31"?

- A. The approximate transmitted symbol rate
- B. The number of characters that can be represented by PSK31
- C. The year in which PSK31 was invented
- D. The version of the PSK protocol

2.) Question G2D08 - What is a reason why many amateurs keep a station log?

- A. The ITU requires a log of all international third party traffic
- B. The log provides evidence of operation needed to renew a license without retest
- C. The ITU requires a log of all international contacts
- D. To help with a reply if the FCC requests information

3.) Question G2B08 - What is the "DX window" in a voluntary band plan?

- A. A portion of the band that should not be used for contacts between stations within the 48 contiguous United States
- B. An FCC rule that allows only digital contacts in that portion of the band
- C. A portion of the band that has been voluntarily set aside for digital contacts only
- D. An FCC rule that prohibits contacts between stations within the United States and possessions in that portion of the band

Extra Class 2012 Pool

1.) Question E7D01 - What is one characteristic of a linear electronic voltage regulator?

- A. The conduction of a control element is varied to maintain a constant output voltage
- B. It has a ramp voltage as its output
- C. It eliminates the need for a pass transistor
- D. The control element duty cycle is proportional to the line or load conditions

2.) Question E6D15 - What is the principle advantage of liquid-crystal display (LCD) devices over other types of display devices?

- A. They can be easily interchanged with other display devices
- B. They consume less power
- C. They are visible in all light conditions
- D. They can display changes instantly

Continued on Page 12

3.) Question E8B10 - Which of these methods can be used to combine several separate analog information streams into a single analog radio frequency signal?

- A. A diversity combiner
- B. Frequency shift keying
- C. Frequency division multiplexing
- D. Pulse compression

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

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

Ziegenbein Nominations

It's time to begin thinking about who you would like to nominate for the 2015 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.

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 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 over SEVEN 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 Julie McLain/KB8ZXR. This Net has been around now for over FIVE 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!!

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.

CMARC Officers and Appointees

President

Julie McLain, KB8ZXR
(517) 694-0812

Vice President / Webmaster
Tom Rocheleau, WA8WPI

Secretary / Cards & Flowers
Jane Hosford, KC8FSK

*Treasurer /
Salvation Army Liaison*
John Doornhaag, KD8NNQ
(517) 882-5406

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

Director / Youth Liaison
Russ Fitzgerald, N8FZ

Under 22 Director
Sam Fitzgerald, N8FRP

Club Contact
Don McLain, KB8RAD
(517) 694-0812

Club Historian
William Cote, WD8NYW

Antenna Projects Chairman
Gregg Mulder, WB8LZG

Lansing ARPSC Liaison
Jim Hannahs, KC8QWH

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

Photographers
Kenneth Hazlett, N8BVV
(517) 348-5513
Phillip Woodward, KD8ZZK
(517) 803-7081

*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 Meeting
begins at 6:00 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, KB8SXX

Director
Jan Bradfield, KC8BFB
(517) 202-1779

Director
Don McLain
(517) 694-0812

Director
Jim Harvey, KA8DDQ
(517) 882-5796

Membership Chair
Julie McLain, KB8ZXR
(517) 694-0812

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, NS8Q, at cmarcscope@gmail.com.

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



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!*

Name		Callsign
Address		City State
ZIP	Phone	Lic. Class
ARRL Member?	Birthday	Wedding Anniversary

Year 1st Licensed

Please supply email address for SCOPE mailing

☐ Full ☐ Associate ☐ New Licensee (1 yr. free) ☐ Under 18 (free)

Full Membership \$15 per calendar year (must be a licensed amateur to obtain Full Membership) Associate Membership \$5 per calendar year.

Mail Your Check or Money Order to:

John Doornhaag

1165 S Ainger Rd

Charlotte, MI 48813-9540

(Checks made payable to CMARC)

[Click Here to copy CMARC Form to LCDRA Form](#)

JOIN TODAY!

Lansing Civil Defense
Repeater Association

As a licensed Amateur, you can **sign up today** for only \$15. As a member of LCDRA, you will receive an annual subscription to 'The SCOPE', as well as voting rights in the Association.

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.

Name		Callsign
Address		City State
ZIP	Phone	Lic. Class
ARRL Member?	Birthday	Wedding Anniversary

Year 1st Licensed

Please supply email address for SCOPE mailing

LCDRA Membership is \$15 per calendar year (add a Family member for only \$7.50 per person, per year). LCDRA maintains our local repeaters and your support is appreciated. (Membership not required to use repeaters)

Please make your checks payable to "LCDRA" and mail to:

Julie McLain KB8ZXR

4444 Sycamore St. #1

Holt, MI 48842

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

