



Central Michigan Amateur Radio Club

THE SCOPE

Lansing Civil Defense Repeater Association



centralmiarc.com

Serving Our Community Since 1921

lcdra.net

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ARRL The national association for
AMATEUR RADIO

www.arrl.org

2015 ARRL FIELD DAY

HAM RADIO

Field Day 2015 Soapbox

Gregg Mulder/WB8LZG

We will remember this Field Day for a long time. Due mainly to the weather. Coldest, wettest FD WX I can remember. I was glad I came out on the Friday before to put some lines in the trees, while it was sunny and dry. I should have known we would arouse the wrath of our Ol' pal Murphy with the mere mention of Field Day. My very first shot at lofting an arrow to the upper limbs of a tree, hit the limb I wanted to go over, and fell to the ground. Was this part of some ancient Field Day CURSE? More determined than ever, I struck "pay dirt" with the second shot. Now that I had one line up, I thought about pulling two up in the same branch. Bad thought. I grabbed two new lines and spread them out. Then I forgot to tie them onto the main line! As I pulled up the main line, it seemed to be coming up to easy. I got a glimpse of the empty end of the line as it was being pulled out of reach. That sick feeling of stupidity and despair crept over me. Noooooo! After a few choice "greetings" to Murphy, I regained my composure. Nothing to do but start over. I did finally get some more lines up in the trees. But it sure didn't go as smoothly as some previous Field Days. I lost an arrow. Well maybe I wished I lost it. It hangs up about 60 feet in the air, silently laughing at me, taunting me, just dangling from the broken fishing line that keeps it a prisoner. Oh well perhaps I will find it next year. I attached the battery powered QRP rig to the coax and immediately heard an EA8 in the Canary Is.

Yes the "curtain" was indeed playing. I went home Friday evening with a good feeling about the antenna farm.

Saturday morning I awoke to rain showers. "Figures" I mumbled to myself as I looked at the dreary scene. The truck was all loaded up, so I filled up a "Cup o Joe" and headed out. "Sure glad we got a trailer instead of a tent" I told myself as I pulled in to the park. Lot's of others were already there when I arrived. The 40m dipole went up nicely, and the apex up about 45 feet. The 20 meter Bruce Array was nestled over us between two trees at a top height of about 45 feet, with the bottom of the array up around 30 feet above ground. I was a bit chilled, wet, and so decided to wait to put up the 80m dipole until later in the day, hoping for a break in the rain. We "fired up" the rig on 20m but the band did not seem any too lively. Turns out, we had a solar flair days earlier and the bands were just starting to recover. A quick bite of lunch and we were awaiting the start. We had our QRP rig hooked up to the 20 meter Bruce Array and were going to take care of our "Solar power" Bonus points. At the starting bell, it was mayhem! Ahhh yes, the sweet sounds of Field Day! Chris NS8Q and I had discussed the "strategy" of staying on the QRP rig as long as the QSO rate was good.

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Field Day 2015 Soapbox

Gregg Mulder/WB8LZG

We had our five qualifying QSO's in the first 7 minutes, so we just kept going. Got 13 Solar QSOs in 17 minutes before we swapped to the big rig. Proof you do not need high power to have fun! After a few runs up and down the band things got a bit harder. Slowly, in the late afternoon and early evening, the bands started to improve. Then they got downright good! We took turns doing "food shifts" until all of us were fed. Big thanks to Maribeth Harger for a super job organizing and serving up chow for the trenchermen! I think I gained weight again this Field Day!

The rain did let up finally to let Chris and I raise the 80m dipole for the late night gang. As night fell I grabbed another piece of pizza and headed off to relieve Ed, W8EO and first time FD attendee and new ham Teng Wu, KE8BII, who was trying his "fist" at the key to the surprise of us all. Ken Faiver W8HNI, had just arrived, and rates were slowing down on 20 so we made the switch to 40 meters. 40 was "WALL to WALL" signals with no room in between! Our "pruned n tuned" 40m dipole played great! I got my best rate of the contest. In one nice "run", I had 38 QSOs in 30 minutes. This stuff keeps us coming back for more! I was feeling fatigued (downright whooped) so I gave up the "hot seat" to Ken and wished them "Good Luck".

I got up early to a beautiful sunny Sunday morning! Now that is more like it. As I pulled in, I made my way to the food tent to "top off" my Joe. Several bites on a home-made cinnamon roll and I was ready for some more FD fun. I moseyed on over to the CW trailer and relived the night crew Ron, Bob, and Ken. They had very good luck on 40m and 80m all night long. Over 400 QSOs in the log so far. 80 meters was still playing well as I climbed into the "chair", and another couple of pages went into the log. Then mid-morning as Chris arrived, we went to 15 meters to try our luck. 15m was doing fine and padded our score well for about an hour or 2. When the rate on 15 slowed down, we switched to the big "curtain" on 20m again. I started in on 20m but my stamina was beginning to be kaput, so I relinquished the hot seat to Ken and Ron. They finished off the day in FB fashion. Then just when we had thought we had made it through Field Day with no more visits from "Murphy", Ken/KC8LTL decided to tempt fate as he lowered the "Bruce Array". Taking after me, he pulled up the wrong end of the line and our spool of rope sat 25 feet in the air. He was feeling rather "sheepish" about it but a big smile returned after the wind helped to blow it down within reach. Hi Hi Final tally 583 QSO's. A very FB effort by the CW crew. Thanks to all who participated in the fun.

73, Gregg/WB8LZG



The CW station trailer with the 20m "Bruce Array" overhead.



Ken/W8HNI and Ron/WD8BCS



Chris/NS8Q, Ken/W8HNI, and I enjoying the nice day, CW style!

Field Day 2015 in Pictures

Courtesy of Dan Ruger/KD8OIB

Editor's Note:

We would like to thank Dan Ruger/KD8OIB for bringing his quadcopter drone to our Field Day site. Here are some of the amazing HD pictures he took while in flight.

You may also view a short HD video of his flight by visiting the CMARC Facebook Group Page.



VHF Station (Center) and HF SSB/Digital Trailer (Left)



A general overview of the Field Day site (Looking to the West).



HF SSB/Digital Trailer



CW Trailer at the back of the site with the 20m Bruce Array visible.



Quadcopter Drone (Courtesy of Kenny/N8BVV)

Field Day 2015 in Pictures

Courtesy of Kenny Hazlett/N8BVV



HF SSB/Digital Trailer (Dan/KD8MOK, John/NO8T, Matt/KD8OOS)



Andrew and his Dad Brian/KD8ONC at the GOTA Station



Jim/KA8DDQ assembling his 6m Yagi for the VHF Station



Ken/KC8LTL and John KC8QZB at the SSB Station



Ken/W8HNI at the key



Jeff/KC8PUN, John/KD6KCX, and Dennis/KB8ZQZ preparing for the Fox Hunt Demonstration

Field Day 2015 in Pictures

Courtesy of Kenny Hazlett/N8BVV



Dan/WX8MOJ and Jean/K8MUS at the HF Digital Station



Shannon/WA2NVK dressed for Saturday's monsoon!



Field Day sign as seen from the main roadway

Ham Radio Contact Brings Unexpected Fun

Gregg Mulder/WB8LZG

I thought I would tell you all of a very FB QSO I had the day after Field Day. I was busy putting the rig and station back together and after a quick check at 10 watts to verify a good antenna connection, I gave the dial a spin to check on the band conditions. I heard N1IBB calling CQ, and decided to give him a buzz. Matt came back to me, with a 559 in Newton, Mass. near Boston. Here is where it gets interesting. Matt is over 60 years old and blind. That would normally be quite interesting, but the rest of the conversation was fun. Matt had been a student of the Michigan School for the Blind (now closed) on Lansing's old north side. My family had relocated here in 1967, and my Father ran the A&W root beer stand on Old Grand River and Ballard St. in the north end. Working at the root beer stand at a young age gave me some very fond memories of some of Lansing, Michigan's best days. In the 60's & 70's the Michigan School for the Blind was a world-renowned training facility for the sightless. In fact, "little Stevie Wonder" lived right behind the A&W for a time, and was affectionately known to locals as "the blind boy from Ballard St.", was also a student there. As our conversation toured through Lansing in our memories, it was quite delightful to reminisce about some of our now gone businesses that were going strong back then. Companies like Knapp's, Howmet, Motor Wheel, Oldsmobile, Estes Furniture, Melling, Lindell, Wards, Grinnell's, Lansing Electric Motor, Wedemeyer's, Jim's Tiffany Place, Albert Pick, Casa Nova, Ramon's and of course, the A&W. Just to name a few. (Sigh) Lansing was in its "heyday" back then. Everyone had a job, and could afford to buy the goods we made here. Our economy was in high gear, and the world was at our fingertips! This was also when I first became a Ham. Happy times for me growing up in the Ol' north end. With great memories of a prosperous time in our city. All from answering a CQ from a ham far away. It is a small world, and Ham Radio spans those distances to make it even smaller. We said our 73's and wished each other well. I smiled to myself in the silent satisfaction of have been able to be here to see all the changes.

Ours is truly a wonderful hobby. It has thrilled and fascinated me for over 40 years, and continues to do so every time I turn on the radio. Here is to even more excitement the next time I turn on the rig. Where will my signals take me tomorrow?

73, Gregg/WB8LZG

Birthday & Anniversaries

Meeting Information

JULY

Birthdays

7/3	Joe Norton / KD8ZZL
7/7	Joseph Urdzela / KE8BIK
7/14	Bill Cote / WD8NYW
7/17	Carl Canfield / K8YHH
7/31	Anthony Parker / KB9WRA

Anniversaries

7/3	Jerry / KD8GLN and Sharon / KD8HHK Waite
7/10	Tom / KB8J and Cheryl / KD8QFE Davage
7/31	Jean Wixson / KE8ABY

From the Editor:

Last month, we listed the Birthday for Ted Sadilek WA8MFQ as June 22. His actual Birthday is June 12. Thank you Ted for correcting our mistake.

Treasurer's Report

Jerry Waite/KD8GLN—CMARC Treasurer

Bank Balances for April 2015

Primary Share Acct. (Humphreys Fund)	\$1,091.57
Business Checking	\$4,498.67
Net Worth	\$5,590.24
Youth Fund Balance*	\$253.52
Building Fund (Club Station)	\$9.09

* separate from CMARC Funds

Bank Balances for June 2015

Primary Share Acct. (Humphreys Fund)	\$1,091.75
Business Checking	\$3,433.10
Net Worth	\$4,524.85
Youth Fund Balance*	\$253.56
Building Fund (Club Station)	\$9.09

* separate from CMARC Funds

CMARC



The next monthly meeting of the "Central Michigan Amateur Radio Club" will be on Friday, **July 10th** @ 7:00 PM in the Salvation Army building, located at 701 W. Jolly Rd in Lansing. There will be no program speaker for July as we will be using the time to do a Field Day wrap-up and for finalizing our Hamfest plans. We still plan on having a great time, so come on out and join us! For more information, you can check out our website at www.centralmiarc.com or consult our Club contact Don McLain KB8RAD at (517) 694-0812 or KB8RAD@arrl.net. See you ALL there!!

ARPSC



The ARPSC meeting for the month of July is at 7:00pm on Monday, **July 20th**. We will be meeting in Lansing at Fire Station #8, on the corner of Marshall Street and Grand River Avenue. For information about the ARPSC please check out our website at www.lansingarpssc.com

LCDRA



The next quarterly meeting of the "Lansing Civil Defense Repeater Association" will be at 7:00 pm on Thursday, **July 16th** at Lansing Fire Station #8, located on the corner of Marshall Street and Grand River Avenue in Lansing. If you're interested in what's REALLY going on with the repeaters, come on out to the meeting where you can get your information "straight from the horse's mouth" and maybe even JOIN!

Upcoming Hamfests

Date: **7/18/2015** (GM ARC Trunk Swap)

Location: Shelby Township, MI

Sponsor: GM Amateur Radio Club

Website: www.gmarc.org

Date: **7/25/2015** (2015 CMARC Outdoor Hamfest)

Location: Lansing, MI

Sponsor: Central Michigan Amateur Radio Club

Website: www.centralmiarc.com

What's My Sign?

Julie McLain/KB8ZXR

I was born on August 27, 1977 in Lansing, Michigan, and have two younger sisters. We lived in Potterville for the first few years of my life and then moved to South Lansing, where we called home until I was in the second grade at Everett Elementary on Holmes Road. When they closed the school, my parents decided to move to Dimondale. In 1995, I graduated from Holt High School and enrolled in LCC's Architectural Technology/Residential Design program. Three years into LCC, I started working for Hausman Corporation, which has since been renamed to Harris Rebar. I have been working there for 17 years now. The first six years were spent in the Engineering Department, and the remaining 11 years with Estimating. Switching positions has opened up other opportunities for me within the company. One of which is to work more closely with our IT department. Because of this, I have started back to LCC to obtain an Associate Degree in Computer Network and Information Security.

My interest in radio began because my Mom stayed home with us kids, while my Dad worked. Occasionally, Mom would have to run errands, so she would drop us off at the Governor's Mansion in Lansing, where my Dad was stationed as one of four Michigan State Troopers. It was during my time there with him when he allowed me to listen to the police radios. When I got older, they bought me my first Radio Shack scanner. From then on, I was hooked! In my mid-teen years, two men introduced me to Ham Radio and became the first two Elmer's I would have in my "career" as a Ham. They were Doug Nelson AA8DQ (SK), a close family friend, and Harold Adams N8DXI (SK), Father-in-law to my Aunt. With their help and encouragement, I began studying and on September 30, 1995, I passed the Novice written exam. On December 9, 1995, I passed the Technician written exam, and became one of the "No-code" Techies, which no longer exist. It wasn't until January 25, 1997 that I passed the 5 wpm code test. I went on and upgraded to General, first by

passing the 13 wpm on December 11, 1999, and then the written on April 8, 2000. CW has always been my favorite mode, and I learned mostly by listening to Morse Code tapes, but most of the CW education came from working with several of the club's veteran operators at Field Day. Among the several Ham's who saw potential and gave me opportunities to operate, were Bill Chapman W8TJQ (SK), Don Devendorf W8EGI (SK), Ken Faiver W8HNI, and Joe Denomme N8VYS. There is something about on-the-air operating that tapes can't provide, and with their help, I was able to quickly increase my speed. Before I could afford my own HF equipment, Field Day was the only chance I had to operate, and was something I looked forward to each and every summer.

The equipment I own has changed through the years, which is common with every Ham. I happen to have a wife who is a Ham, so the equipment listed is actually shared between us. As far as mobile radios, I own a Yaesu FT-8800R Dual-Band, a Kenwood TM-241A 2m, and a Yaesu FT-2800R 2m. The handhelds consist of a Yaesu VX-5 Dual-Band and a Motorola XPR-6500 for DMR Radio. As far as HF gear is concerned, I still operate a Yaesu FT-757GX2 with MFJ and LDG Electronics Tuners. For digital operations, I have a SignaLink USB device. For operating CW, I have the following Keys: a Kent TP-1 Dual Paddle Iambic, a Bencher BY-1, Vibroplex Single Lever, and my newest is a K8RA P-2 Paddle. For contesting at home, I use an external SCAF Filter, a Logikey CMOS 4 Keyer, and N1MM and N3FJP Software. The antennas consist of a Comet GP-1 Base Antenna, and a Carolina Windom Wire Antenna at 35-feet and covering 40-10m.

There, now that we've become a little better acquainted, "What's My Sign?" My Callsign is NS8Q and my name is Chris Ranes. My wife is Shannon/WA2NVK. I currently serve as a Director on the Board of CMARC, and am the new SCOPE Editor.

CMARC Meeting Minutes

April 10, 2015

President Julie/KB8ZXR brought the meeting to order at 7:10 pm.

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: Bill Russell/WA8RZJ.

A moment of silence for our silent keys.

The Board was introduced to everyone: Vice President Tom Rocheleau/WA8WPI, Treasurer Jerry Waite/KD8GLN, Secretary Jane Hosford/KC8FSK, Director Chris Ranes/NS8Q, Director Don McLain/KB8RAD and Under 22 Director Sam Fitzgerald/N8FPR.

ATTENDANCE:

There were 53 people in attendance. Visitors included: Michael Lutz/AC8TL, Mary Tillitson, Joe Urdzela, Jay Horn and Linda Dunahoo.

NEW LICENSES, UPGRADES AND VANITY CALLS:

Michael Lutz, Mark Carter/KD8YUY-extra,
Phil Woodard/KD8ZZK-general.

CARDS AND FLOWERS REPORT:

Sympathy card was sent to the family of Bill Russell/WA8RZJ, sympathy card was sent to the family of Doulas Sitterson/KC8UUF, sympathy card was sent to Bob/KB8DQQ and Leota/KD8SQD Strobel, get well card was sent to Gloria Cote.

A \$40.00 donation was sent to Home Sweet Home in Hazlett in memory of Mrs. Strobel.

INTERESTING DX CONTACTS:

Jimmy/KD8IWQ- Greece, Santa Lucia, Italy, Canary Islands.

Ben/KD8ONC-Cypress, Austria, Israel, Greenland
Steve/W8ROS showed the first antenna he made.

OLD BUSINESS:

A motion to accept the February's secretary's report as printed in the March Scope was made by Phil/KD8ZZK, seconded by Don/KB8RAD and approved. A motion to accept the February's treasury report as printed in the March Scope was made by Jan/KC8BFK, seconded by Cheryl/KD8QFE and approved.

A motion to accept the March secretary's report as printed in the April Scope was made by John/KD8NNQ, seconded by Jimmy/KD8IWQ and approved. A motion to accept the March treasurer's report as printed in the April Scope was made by Dan/KD8YDE, seconded by Ben/WD8OVL and approved.

PLEASE PAY YOUR DUES:

NEW HAMS GET ONE YEAR FREE MEMBERSHIP

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

Dan/KD8YDE is our new Scope editor. Dan/KD8YDE is working on a new Club directory. Forms are due by the end of April. If nothing is turned in then only your name and call sign will be included in the directory. MI QSO party is Saturday, April 18th. Will be here in the Club room at noon and it goes until midnight.

In lieu of a meeting in May, we will have our annual Ladies' Night/Ziegenbein Award Banquet. We will be meeting at 6:00pm sharp at Delhi Cafe in Holt. Julie has reservation forms and they are also on the website. We'll have a good dinner, cake and entertainment and the Ziegenbein Award will be presented at that time. Hope to see all of you there. We always have a good time. Reservations must be in by April 29th.

REGARDING OUR MEMBERSHIP IN "SATERN" SALVATION ARMY TEAM EMERGENCY RADIO NETWORK:

Jerry Waite/KD8GLN has volunteered to be the unit leader for the CMARC SATERN Group. Jerry Waite/KD8GLN our club liaison with the Salvation Army has also volunteered to represent CMARC on the advisory counsel.

Volunteers are needed for the Sparrow Bike/Hike for Hospice on Sunday, May 17th. To volunteer or if you have questions, please contact John Tyree/KD6KCX at jtyree@me.com.

NEW BUSINESS:

MS and March of Dimes walk on Saturday May 25th. Contact person is Don Tillitson @321-2004. 8:30 – 1:30.

ORGANIZING THE CLUB ROOM:

Need to wait until the leak in the roof is fixed.

REFRIGERATOR FOR CLUB ROOM:

John Doonhaag/KD8NNQ made a motion that we buy a new refrigerator the club room, seconded by Leota Strobel/KD8SQD and approved, with a limit of \$500.00.

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CMARC Meeting Minutes

April 10, 2015

Dan/WX8MOJ made a motion, seconded by Phil/KD8ZZK and approved that if there is a problem with the cost of electricity the Club will be the excess.

FIELD DAY:

June 27th and 28th at Rayner Park in Mason. Ron Harger/WD8BCS is in charge and he has volunteered his wife to help with the food. There will be VE exams at field day.

HAMFEST:

July 25th at Holt Christian Church. We are registered with the ARRL and approved.

Mason's 150th anniversary is in September.

UNDER 22 REPORT:

Sam/N8FPR talked about "Raspberry Pi" microchip. Hopes to incorporate it into ham radio.

GENERAL CLASS:

Starting in July.

Bob Strobel/KB8DQQ is selling candy bars for a dollar a piece and all the proceeds are going to LCDRA. Thanks Bob.

50/50:

Mark/KD8YUY won \$21.00.

Motion for break made by Ted/WA8MFQ, seconded by Don/KB8RAD and approved at 8:25 pm.

PROGRAM:

Our speaker for tonight is John Imeson/N8JI, president of the Lansing Civil Defense Repeater Association, who will give us an overview of what's going on with our four local repeaters.

Motion to adjourn by John/KC8QXB, seconded by Leota/KD8SQD and approved.

Will all business concluded, the meeting was adjourned at 10:05 pm.

Respectfully submitted,
Jane Hosford/KC8FSJK-secretary

CMARC Board Meeting

April 10, 2015

President Julie McLain/KB8ZXR called the meeting to order at 6:35 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.

Club directory: Dan/KD8YDE has the forms for the club directory. He extended the deadline to the end of April. For all those that do not send in anything, Dan is only going to put in the member's name and call sign.

ARRL annual report: Who does the annual report and how often does the special service club renew? Dan/WX8MOJ said he would be responsible for these two items.

Need to buy containers for storage of clubroom stuff.

Chris/NS8Q will announce upcoming contests.

Don/KB8RAD has announcements.

Hamfest is all registered with the ARRL and will be Saturday July 25.

Jerry Waite/KD8GLN has volunteered to be the unit leader for our CMARC SATERN Group.

Salvation Army Advisory Council: Jerry Waite/KD8GLN has volunteered to represent CMARC on the advisory council.

Refrigerator for the clubroom. Julie/KB8ZXR found one for \$387.00. Cost \$48.00 a year for electricity.

Organizing clubroom: Unable to do much until the ceiling is fixed.

Under 22: Sam/N8FPR talked about "Raspberry Pi" and the things that you are able to do with that.

Motion to adjourn made by Don/KB8RAD, seconded by Jerry/KD8GLN and approved.

Meeting adjourned at 7:05 pm.

Respectfully submitted,
Jane Hosford/KC8FSK—Secretary

Special Board Meeting

June 6, 2015

President Julie McLain/KB8ZXR called the meeting to order at 5:40 pm with the following Board members present: 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. Also present were Russ Fitzgerald/N8FZ Club Room Committee Head and Dan Dembinski/KD8YDE Co-committee head.

The Board brainstormed ideas of how to clean up our Clubroom and make it more functional and attractive to our guests and members alike.

Russ/N8FZ suggested putting up ham license plates on the walls, with a special area for our Silent Keys.

The Board approved the idea with the restriction of using 3M hanging supplies, and said he could address the membership at the June 12 meeting.

Chris/NS8Q will compile a list of furniture related items we may need to purchase from MSU Salvage to begin rebuilding the two operating stations.

It was noted that Pastor Lee had approved the installation of a new electrical outlet to use with our new refrigerator in the clubroom. However we will need to find a licensed Electrician to do the work.

The Board wants to see if the Club Historian has any other awards, charts, maps, or other items of interest, for us to hang on our walls.

The idea was brought up about purchasing some picture frames from Dollar Tree to hang our awards and other certificates in.

Motion to adjourn was made by Jerry/KD8GLN, seconded by Chris NS8Q and approved.

The meeting adjourned at 7:00 pm

Respectfully submitted,
Jane Hosford/KC8FSK—Secretary

CMARC Board Meeting

June 12, 2015

The Board met in the Club room at 6:15 to talk about spiffing up the Club room, where to hang awards, etc. President Julie McLain/KB8ZXR called the meeting to order at 6:15 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. Also included in the meeting were Russ/N8FZ and Dan/KD8YDE.

Silent Keys:

Matt McMillan/KD8KUN/WB8KWQ, on June 6, 2015.

John Carter, Mark Carter's/KD8YUY Dad.

Ralph Chapman/WA8NHD.

Lee Gardner, DeAnna Barnhill's/KD8BDI Dad.

Louis Larche/KD8BWL.

Don Defeyter's/KC8CY brother.

Ask Dan/KD8YDE how the Club directory is coming along.

Upcoming meetings:

Larry Camp/WB8R for August.

Dale Williams/WA8EFK for September

501(c)3 Need a mission statement.

Spiffing up the Club room. Need to go thru everything and decide what to keep, sell or get rid of.

Have a committee of Chris/NS8Q, Tom/WA8WPI, Gregg/WB8LZG, John/KC8QZB and Bob/K8RDN, to go thru everything to see what can be sold at Hamfest. See if Don/WB8NUS is going to have a table at the Hamfest, and if so, will he sell our stuff also.

Jerry/KD8GLN needs to talk to Pastor Lee about the leak. Also needs to talk to Major Hellstrom about training here in Lansing for SATERN.

Sunday, June 21, 2015 is ARRL Kid's Day.

Motion to adjourn made by Don/KB8RAD, seconded by Sam/N8FPR and approved.

Meeting adjourned at 6:57 pm.

Respectfully submitted,
Jane Hosford/KC8FSK-secretary

FCC Goes Paperless

The Amateur Radio Relay League VEC

In order to streamline procedures and save money, the FCC stopped routinely printing and mailing licenses in February.

There are a number of ways a license holder can obtain an official copy of their license. The official license will display the FCC logo and the watermark "Official Copy" will be printed across each page of an official authorization from FCC.

1. Download and Print License: The licensee can log into the FCC ULS License Manager System <http://wireless.fcc.gov/uls/> with their FRN and password to 'Download the Electronic Authorization' of the official license. On the 'Download Authorizations' page the license holder will add their call sign to the 'Authorizations to Download' and then click download. The PDF of the license can be saved to a computer and printed later or the file can be opened and printed immediately.

2. Login and Set Paper Preferences: The licensee can log into the FCC ULS License Manager System <http://wireless.fcc.gov/uls/> with their FRN and password and set their own paper authorization preferences for future mailings. This option determines whether a user will receive paper authorizations (printed license and FRN information) from the FCC. The license holder would select either YES or NO and then click SAVE. By selecting YES, you will continue to receive paper authorizations printed and mailed by the FCC. By selecting NO, you will not receive authorizations printed and mailed from the FCC. This preference will affect all granted authorizations on this FRN.

3. Receive License via email: When modifying, renewing or requesting a duplicate copy of the license, a licensee who already has an FCC Registration Number (FRN) and provides a valid e-mail address under "Applicant Information" while logged in to the ULS system will receive an official ULS-generated electronic authorization via e-mail.

The action of adding a valid e-mail address into the FCC system can also be performed by a VEC filing new, upgraded, modified or renewed licenses on behalf of applicants.

4. Contact FCC: Licensees may contact FCC Support via the web, by telephone (1-888 225-5322) or by mail to

request paper licenses. Please note that FCC recently stopped using distinctive paper stock to produce hard copy licenses and has been printing these on "standard, white recycled paper." The Bureau noted that the distinctive paper stock it had used was six times more expensive than the plain recycled paper it now uses.

All this information is located on the VE Resources page www.arrl.org/resources-for-ves in the section titled "Obtain a License Copy".

Additional Information

An unofficial "reference copy" can always be printed from the FCC's ULS License database <http://wireless.fcc.gov/uls/>.

New licensees may choose to register their SSN (social security number) with the FCC and receive a FRN before the exam date to make retrieving a copy of their new license after the session much easier.

VE Teams may accept photocopies or printouts of licenses from the follow sources: the official license or reference license printed from the FCC website, and license data printed out from the ARRL website or QRZ website. This information can be found on the ARRL web page what to bring to an exam session.

WANTED

Russ Fitzgerald/N8FZ is looking for new and/or used call sign license plates as part of a project to spruce our Club room at the Salvation Army. If you have license plates laying around your house, garage, or would like more information, please contact Russ at russf2211@aol.com.

2015 VE Exams

Sponsored by the "Ingham County VE Group"



**ARRL
VEC**

To best accommodate the various schedules of those wishing to test, the Ingham County VE team meets on either a Saturday morning or a Thursday

evening, every other month. This year (2015) we will be testing at Lansing Fire Station #44 on 1435 E. Miller Road in Lansing, between Aurelius Road and Pennsylvania Avenue. Walk-ins are always welcome!! If you need assistance you can check out the CMARC website at www.centralmiarc.com/vetesting.php to find travel directions and what to bring, or you can just get a hold of VE Team Contact Person Don McLain/KB8RAD at (517) 694-0812 or KB8RAD@arrl.net

EVEN MONTH testing sessions are held on the first Thursday of the month at 7pm.

ODD MONTH testing sessions are held on the second Saturday of the Month at 11am.

Schedule of VE Sessions

First Thursday at 7pm.

August 6th

October 1st

December 3rd

Second Saturday at 11am

July 11th

*July 25th (11am Hamfest—Holt Christian Church, 2424 S. Washington Rd. in Lansing. See the Hamfest flyer in this issue for more details.)

September 12th

November 14th

VE Group's Volunteer Examiners

John Doornhaag/KD8NNQ, *Head VE*

Don McLain/KB8RAD, *Contact Person*

Julie McLain/KB8ZXR

Ted Sadilek/WA8MFQ

Ben Barker/WD8OVL

John Hosford/KC8QZB

Russ Fitzgerald/N8FZ

Tom Rocheleau/WA8WPI

Jim Lakin/W8JRL

Practice Amateur Radio Exams

Sponsored by the "Ingham County VE Group"
VE Julie McLain/KB8ZXR

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

Techician Class 2014 Pool

1.) Question T5D02 - What formula is used to calculate voltage in a circuit?

- A. Voltage (E) equals current (I) minus resistance (R)
- B. Voltage (E) equals current (I) multiplied by resistance (R)
- C. Voltage (E) equals current (I) divided by resistance (R)
- D. Voltage (E) equals current (I) added to resistance (R)

2.) Question T3C11 - Why do VHF and UHF radio signals usually travel somewhat farther than the visual line of sight distance between two stations?

- A. The Earth seems less curved to radio waves than to light
- B. Radio waves are blocked by dust particles
- C. Radio waves are not blocked by dust particles
- D. Radio signals move somewhat faster than the speed of light

3.) Question T8B10 - What do the initials LEO tell you about an amateur satellite?

- A. The satellite is performing a Lunar Ejection Orbit maneuver
- B. The satellite battery is in Low Energy Operation mode
- C. The satellite uses Light Emitting Optics
- D. The satellite is in a Low Earth Orbit

Practice Amateur Radio Exams

Sponsored by the "Ingham County VE Group"
VE Julie McLain/KB8ZXR

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

General Class 2011 Pool

1.) Question G4A09 - Why is a time delay sometimes included in a transmitter keying circuit?

- A. To allow the transmitter power regulators to charge properly
- B. To allow time for transmit-receive changeover operations to complete properly before RF output is allowed
- C. To prevent stations from interfering with one another
- D. To allow time for a warning signal to be sent to other stations

2.) Question G4A14 - What is likely to happen if a transceiver's ALC system is not set properly when transmitting AFSK signals with the radio using single sideband mode?

- A. ALC will invert the modulation of the AFSK mode
- B. Improper action of ALC distorts the signal and can cause spurious emissions
- C. When using digital modes, too much ALC activity can cause the transmitter to overheat
- D. All of these choices are correct

3.) Question G1B04 - Which of the following must be true before amateur stations may provide communications to broadcasters for dissemination to the public?

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

Extra Class 2012 Pool

1.) Question E6B07 - What is the failure mechanism when a junction diode fails due to excessive current?

- A. Charge carrier depletion
- B. Insufficient forward voltage
- C. Excessive junction temperature
- D. Excessive inverse voltage

2.) Question E9D04 - Why is it desirable for a ground-mounted satellite communications antenna system to be able to move in both azimuth and elevation?

- A. To rotate antenna polarization to match that of the satellite
- B. So the antenna can be positioned to cancel the effects of Faraday rotation
- C. So the antenna can be pointed away from interfering signals
- D. In order to track the satellite as it orbits the Earth

3.) Question E8C11 - What spread-spectrum communications technique uses a high speed binary bit stream to shift the phase of an RF carrier?

- A. Phase compandored spread-spectrum
- B. Binary phase-shift keying
- C. Frequency hopping
- D. Direct sequence

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

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

ARRL MI Section News

Courtesy of Larry Camp/WB8R

Amateur Radio Parity Act of 2015: 75 Co-sponsors — and Climbing

The Amateur Radio Parity Act of 2015 -- H.R.1301 -- has been introduced in the US House of Representatives. The measure would direct the FCC to extend its rules relating to reasonable accommodation of Amateur Service communications to private land use restrictions. US Rep Adam Kinzinger (R-IL) introduced the bill on March 4 with 12 original co-sponsors from both sides of the aisle -- seven Republicans and five Democrats.

HR 1301 would require the FCC to amend its Part 97 Amateur Service rules to apply the three-part test of the PRB-1 federal pre-emption policy to include homeowners' association regulations and deed restrictions, often referred to as "covenants, conditions, and restrictions" (CC&Rs). At present, PRB-1 only applies to state and local zoning laws and ordinances. The FCC has been reluctant to extend the same legal protections to include such private land-use agreements without direction from Congress.

H.R. 1301 has been referred to the House Energy and Commerce Committee. Rep Greg Walden, W7EQI (R-OR), chairs that panel's Communications and Technology Subcommittee, which will consider the measure.

Michigan is fortunate to have 3 Congressmen who have signed on as co-sponsors: Representatives Benishek (1st District), Bishop (8th District) and Walburg (7th District). If one of these three are your representative, please go to their respective websites and send them a message thanking them for their co-sponsorship if you have not already done so.

If your representative has not yet signed on, please go to the ARRL website here: <http://www.arrl.org/hr-1301> and follow the instructions at the bottom of the page to send your letter via the ARRL.

Michigan Senate Recognizes and Designates June 22-28 as Amateur Radio Week

Michigan Senate Resolution 49 (2015) recognizes and designates June 22-28 as Amateur Radio week. The full text of the resolution is available here: <http://www.legislature.mi.gov/documents/2015-2016/resolutionadopted/Senate/pdf/2015-SAR-0049.pdf>

The resolution was introduced by primary sponsor Senator Rick Jones and co-sponsors Steven Bieda, Darwin Booher, Jack Brandenburg, Judy Emmons, Geoff Hansen,

Jim Marleau, Mike Nofs, John Proos, Jim Stamas, Rebekah Warren, and Dale Zorn.

A hearty thank you to the Senators. Please take a moment to call their office to thank them.

K2BSA coming to East Lansing August 3-7, 2015

K2BSA/8 will be operating from the campus of Michigan State University during the Boy Scout's National Order of the Arrow Conference (NOAC) to be held August 3-7, 2015. Be looking for the station on 20 and 40 meters -- General portions of the phone band. QSL via KA7MMM. Attendance at this 100th Anniversary of the NOAC is expected to top 15,000 -- youth and adults.

Volunteers will be demonstrating ham radio and operating as station control operators for K2BSA/8 throughout the week so that scouts can actually have an opportunity to go on the air.

If you would be interested in volunteering to assist with the operation of K2BSA/8 please contact Joe (W8JRK) at W8JRK@arrl.net. The plan is to have 2-3 volunteers available for each half day of the event. Some morning and afternoon slots are still available.

Michigan Section Traffic/ARPSC Nets (All times Local)

MACS - MI Amateur Communications System 3.952 1000 Daily

UPN -- Upper Peninsula Net 3.921 1700 Daily; Noon Sunday

MIARPS -- MI Amateur Radio Public Service Corps 3.932 1700 Sunday

QMN -- The Michigan Net 3.563 1830 and 2200 Daily

MITN -- MI Traffic Net 3.952 1900 Daily

MIDTN -- MI Digital Traffic Net 3.583 (Olivia 8/500) in waterfall 2000 Tues, Thurs, Sat

MIADS -- MI ARES D-Star Net Reflector 24A Mon 2000

D8EN - District 8 Emergency Net 3.909 Wed 2100

GLETN -- Great Lakes Emergency and Traffic Net 3.932 2000 Daily

MVTN -- MI VHF Traffic Net IRA Link System 2100 Mon, Wed, Fri, Sun

NLEUP - Northern Lower Eastern UP Net 146.64- 18:30 Daily

SEMTN -- SE MI Traffic Net 146.76- 2215 Daily

TMMTN -- Thumb Mid-Michigan Traffic Net 147.30+ 2130 Mon - Sat

The DX Corner

Col McGowan MM0NDX



Lou (N2TU) and Craig (K9CT) previously announced a DXpedition to Palmyra Atoll at the International DX Convention in Visalia, California.

Palmyra (KH5) ranks #9 on the Most Wanted List and #2 in Europe.

The Pacific Islands DXpedition Group has been awarded permission to activate Cooper Island in the Palmyra Atoll, 11-26, January 2016.

A team of highly experienced operators and veterans of many DXpeditions has been assembled. Team members include Craig K9CT, Lou N2TU, Jerry WB9Z, Tom ND2T, Mike K9NW, Ralph, KØIR, John K6MM, Bob, K4UEE, Hal W8HC, Dick W3OA, Jim N9TK, and Glenn, WØGJ.

The Team plans to operate five stations, 160 to 6 meters on CW, SSB and Digital modes, using a call sign to be announced at a later date. Antennas dedicated to working Europe will be deployed due to the high need and propagation path difficulty.

Critical to major DXpeditions are the immediate, up-front commitment costs. For instance, most of the equipment (antennas, coax, wire, connectors, and site material) has already been purchased, tested and shipped to Palmyra. These procurement and shipping costs are a significant portion of the overall DXpedition costs. It is estimated this DXpedition will incur costs of over \$200,000USD plus individual and personal expenses.

We are pleased we have received support from so many Foundations, Clubs and Individuals already. We are about \$30,000USD short of our need for the next payment November 1st. So please donate as soon as possible to help with the upfront costs.

Our website, Palmyra2016.org, has a "Donate" link to facilitate your generous contribution. Without your support, this DXpedition would not happen!

Lou N2TU
Crain K9CT

WH6EEY—Kahoolawe Island, OC-019

Eric **WH6EEY** has announced he will be active from the rare Hawaiian island of Kahoolawe between July 28-31, 2015.

The island is south of Maui and has been off limits since 1941. He is there with a group to clean-up UXO Unexploded Ordinance, so operating during free time.

QSL via H/C, direct, or LOTW.

E51AGY—Rarotonga



Tony, ZL2AGY is returning to Rarotonga and will be active as **E51AGY** from July 6 to August 6, 2015.

QRV on CW, HF Bands; holiday-style

QSL via H/c

YJ0GA—Vanuatu



Geoff, ZL3GA will again be active from the Benjor Beach Club, Vanuatu as **YJ0GA** between July 21-27, 2015.

Participation also during RSGB IOTA contest (July 25-26) on 20m SSB.

QSL via LoTW, Buro/Direct to H/c.

St. Paul Dxpediton (CY9) - 2016

The CY9 St. Paul dxpedition next July (2016) invites all interested to visit their website and submit the online "Need" survey. The survey data will be used for planning the band/mode operation to assure appropriate focus to meet the dx'er's desires/needs. Additionally, the dxpedition for the most part is self-funded by the team, however, any donations via the web/PayPal are very helpful and appreciated.

Co-leaders N0TG and WA4DAN are currently planning a DXpedition to St. Paul Island (CY9) in July 2016. Initial team members are N0TG, WA4DAN, VA1AXC, AA4NC, K4ZLE, K8LEE & N8AA.

Operations will be SSB, CW, RTTY on 10-160m. Permits for CY9 are considered only during July/August.

Website: www.CY9dxpedition.com

The DX Corner

Tom Roscoe K8CX

QSL Cards from past DXpeditions to the DXCC entities featured in The DX Corner.

W0ANJ/KP6

CCEANIA PALMYRA ISLAND ZONE 31

Confirming 14 MC
TWO WAY SSB
QSO With

W0CKC ON 17 May 1962 AT 12:48 GMT R 5 S 7

Tax QSO 73
Jim Smith

QSL Courtesy
W4DKP QSL Mgr.
975 INGLESIDE ROAD
NORFOLK 2, VA.

W4DKP QSL Mgr.
975 INGLESIDE ROAD
NORFOLK 2, VA.

WLPN
RADIO STATION
Suffolk, Virginia

W0ANJ/KP6 1962 Palmyra Island



CY9SS 2005 St Paul Island

St. Paul Island (CY9) is located north of Nova Scotia (VE1) and south of Newfoundland (VO1) in eastern Canada. The uninhabited island is 3 miles long and 1 mile wide, with peaks at a height of 485 ft. on Croggan Mountain, and not an easy place to visit. It was named St. Paul Island in 1497 by Cabot. It is surrounded by a steep rock-face cliff and is covered with Spruce-Fir trees. We arrived in rough seas on June 6th and departed in the rain on July 6th. Our team faced many challenges but we managed to complete more than 38,000 QSOs.



OJ0SM 2004 Market Reef

Public Service Events

Date: 7/7/2015 thru 7/12/2015

Event: Common Ground

Meeting Location: Lansing Fire Station #1

Meeting Time: 5:00 PM

Event Manager: Jim Hannahs KC8QWH

RACES Card Req'd: Yes

Date: 8/1/2015

Event: Koman Bike Tour

Meeting Location: Mason High School

Meeting Time: N/A

Event Manager: N/A

RACES Card Req'd: No

Date: 8/9/2015

Event: St James 8K/5K

Meeting Location: St James Church—Mason, MI

Meeting Time: N/A

Event Manager: Jeremiah Sevrey KC8EIA

RACES Card Req'd: No

JOHN MACINTYRE, DEPT. OF RADIO TELECOMS., SANTO (LUGANVILLE),
NEW HEBRIDES, WESTERN PACIFIC.
ALSO GM 3 VRR AND EX ZD 2 JM 5N 2 JM

YJ8JM

CONFIRMING QSO

STATION	DATE	GMT	MC	QRM	R	S	T
K4CDZ	02 Nov 70	0005	10-06	SSB	5	5	9

RX: 8400 TX: 8400-40 INPUT: 120 WATTS

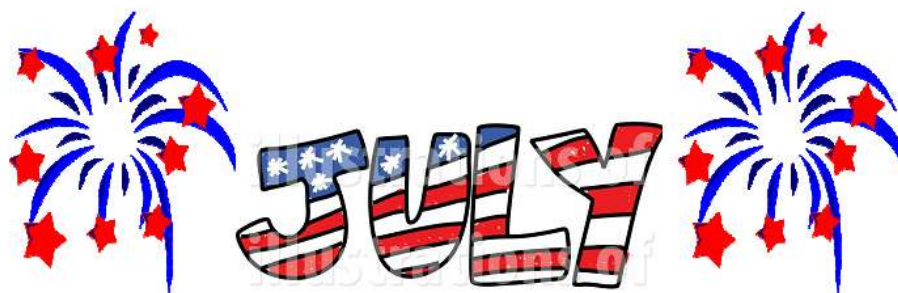
ANT: GSRV VY 73

TNX - PSE QSL Wayne J. W. Lee Print, 48 Timine St., Wanganui, N.Z.

YJ8JM 1970 New Hebrides (Now Vanuatu)

The images and articles about current and/or upcoming DX operations are published here with permission by Col McGowan MM0NDX as made available on www.dx-world.net.

Images for the QSL cards are published with permission from Tom Roscoe K8CX and the QSL Card Museum at www.hamgallery.com/qsl.



JULY LADIES' DAYS

July 3rd - Sharon KD8HHK & Jerry KD8GLN Waite's 39th Anniversary!!

July 10th - Cheryl KD8QFE & Tom KB8J Davage's 50th Anniversary!!

July 24th - Jessica Seaver's B'day!!

July 30th - Minnie Passmore KD8PAZ's B'day!!



LADIES TEA TIME LUNCHEON

There will be no "Ladies Tea Time Luncheon" in July, but I hope you will all join me for CMARC's 2015 "Outdoor" Hamfest on Saturday, July 25th from 8am-1pm. We always have a fun time and we even have prizes for the Ladies! If you would be interested in helping at our Food Tent, I could sure use you, just give me a call or email me (517) 694-0812 or KB8ZXR@aol.com).

I'm not sure if we'll be able to have a Luncheon in August or if we'll wait until September, so please be sure to check out the August SCOPE for more details or check out the "Ladies Page" on

CMARC's Club website at <http://www.centralmiarc.com> and remember, you don't need a Ham License to join us for these fun get-togethers!! I look forward to seeing you all soon!!



LADIES TEA TIME NET!

Please join me every Tuesday evening at 7pm 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 purpose of this Net is to get our Lady Hams out on the air each week, having fun as they visit together. And for those Ladies without a Ham license...you can still check in "Third Party", as long as your licensed husband or friend checks in first. Remember, we always look forward to having our Gentlemen join us for a fun time, too... AFTER the "Ladies Only" portion of the Net!! So, pour yourself a nice cup of iced tea, 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 & Luncheon Coordinator

(517) 694-0812 or KB8ZXR@aol.com

www.centralmiarc.com

2015 CMARC "OUTDOOR" HAMFEST

(We've got EVERYTHING but the ROOF!!)



**ARRL
Sanctioned**

Sponsored by the
Central Michigan Amateur Radio Club

Saturday, July 25, 2015

8:00 AM to 1:00 PM

(Setup Saturday 6-8AM)

at the

**Holt Christian Church
2424 S. Washington Rd.
Lansing, MI 48911-7207**



**Talk-in 145.390
(100Hz PL)**

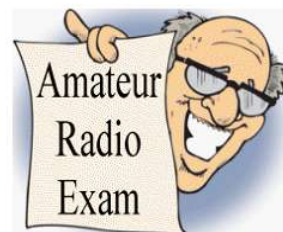
ADMISSION: Public = \$3.00 each, Kids 15 and under FREE!! (Handicap Accessible!!)
Vendors/Sellers = \$3.00 each (includes 1 trunk space). Additional spaces \$5.00 each. RSVP today to secure the number of spaces you need! Also, please remember to bring your own tables, chairs and canopies and be prepared in case of inclement weather.

For Reservations or Questions contact Julie McLain KB8ZXR (517.694.0812 or KB8ZXR@aol.com)



DON'T FORGET to enjoy a Sweet Roll and Coffee--then later on grab a BBQ Pulled Pork Sandwich or a Dog or Brat "Hot Off The Grill" with all your favorite trimmings!!

"RF ADAPTER GUY"
will be here, offering RF connectors, adapters, antennas & accessories for your Ham, Commercial, GMRS or CB needs.



VE TESTING at 11am.
Sponsored by the "Ingham County VE Group". Walk-ins are Welcome!!



"TYCHO AUSSIE"
CMARC's 6' 3" Mascot will be back again this year for kids of all ages!!

"AMSOIL"
~The First in Synthetics~
Harold Taylor,
Independent Dealer
Selling synthetic lubricants and filters



"LARRY CAMP WB8R"
Visit with our ARRL Great Lakes Division Michigan Section Mgr.

DOOR PRIZES!!

We will have hourly prizes with our GRAND prize being a Yaesu FT-60R Dual-Band HT drawn at 1pm!!

FORUM

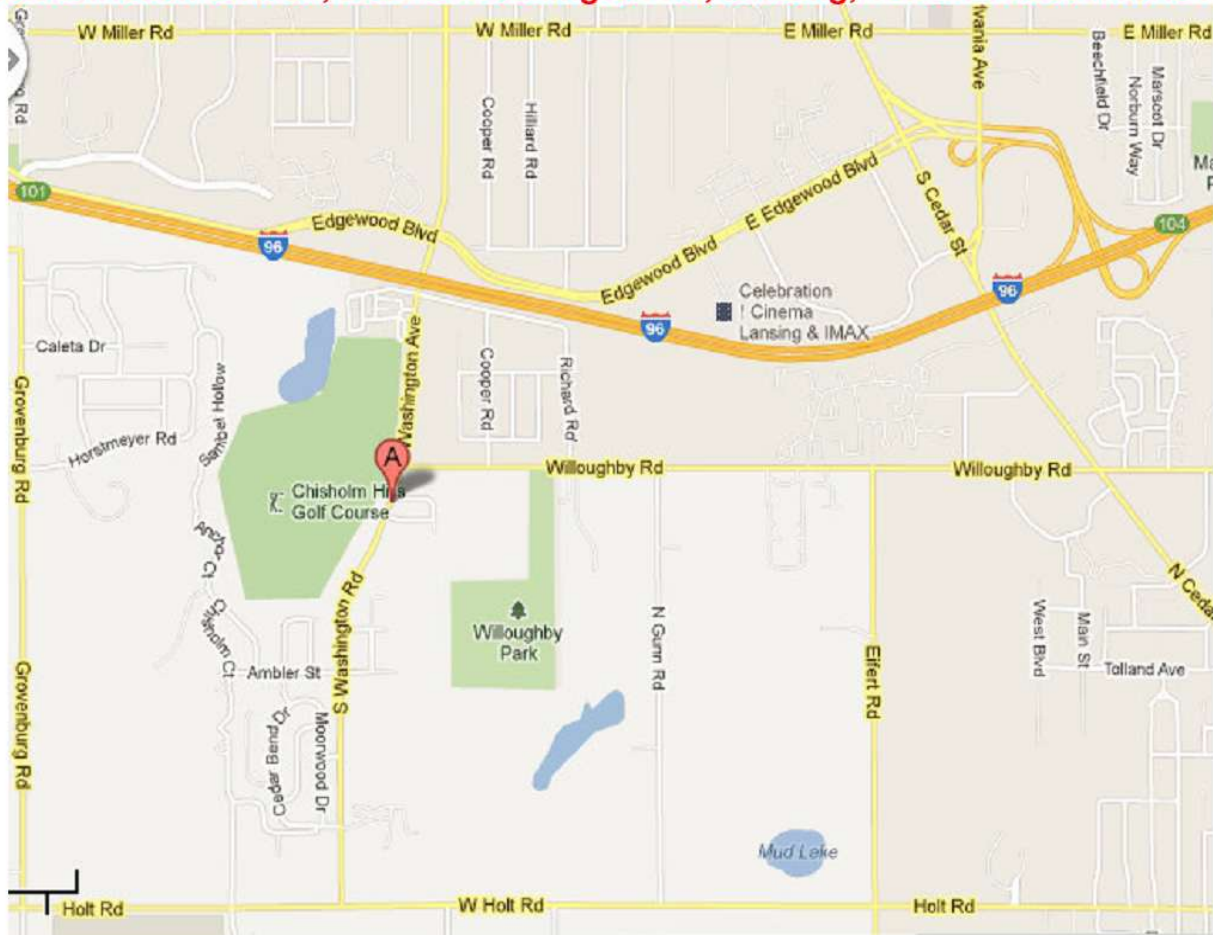
“APRS FOR YOU and ME!”

**With time for Q&A
(9am-10:30am)**

G.O.T.A. STATION

**Don't have a license? Come
Get On The Air with the Youth
of CMARC!!**

Holt Christian Church, 2424 S. Washington Rd, Lansing, Talk-in 145.39-100Hz PL



**BE SURE TO JOIN US FOR THIS YEAR'S
“OUTDOOR” HAMFEST!! COME “RAIN OR SHINE”
YOU'LL HAVE A GREAT TIME!!**

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 FIVE 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 435 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 **"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.**

The SCOPE is published by the CENTRAL MICHIGAN AMATEUR RADIO CLUB in association with the LANSING CIVIL DEFENSE REPEATER ASSOCIATION



SINCE 1921



Our CMARC Officers and Appointees

President	Julie McLain KB8ZXR	Ph: (517) 694-0812
Vice President	Tom Rocheleau WA8WPI	
Secretary	Jane Hosford KC8FSK	
Treasurer	Jerry Waite KD8GLN	Ph: (517) 882-5406
Director	Donald McLain KB8ZXR	Ph: (517) 694-0812
Director	Chris Ranes NS8Q	
Under 22	Sam Fitzgerald N8FPR	
Cards/Flowers	Jane Hosford KC8FSK	
Photographers	Kenneth Hazlett N8BVV Phillip Woodward KD8ZZK	Ph: (517) 348-5513 Ph: (517) 803-7081
Club Contact	Donald McLain KB8ZXR	Ph: (517) 694-0812
Salvation Army Liaison	Jerry Waite KD8GLN	Ph: (517) 882-5406
QSL/Awards Mgr	Don DeFeyer KC8CY	Ph: (517) 641-4533
Scope Editor	Chris Ranes NS8Q	Ph: (517) 487-8376

** email address: cmarcscope@gmail.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



**Lansing Civil Defense
Repeater Association**



Our LCDRA Officers and Appointees

President	John Imeson N8JI	Ph: (517) 449-1517
Vice President	Don Tillitson WB8NUS	Ph: (517) 321-2004
Secretary	Ron Harger WD8BCS	wd8bcs@arrl.net
Treasurer	Jeff Oberg KB8SXX	
Director	Jan Bradfield KC8BFBK	Ph: (517) 202-1779
Director	Donald McLain KB8RAD	Ph: (517) 694-0812
Director	Jim Harvey KA8DDQ	Ph: (517) 882-5796
Membership Chair	Julie McLain KB8ZXR	Ph: (517) 694-0812
Repeater Trustee	Dennis Boone KB8ZQZ	drb@msu.edu

LCDRA Call: W8BCI

Meeting: Quarterly on the third
Thursday of the month, beginning at
7:00 pm. 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

Address City State

ZIP Phone Lic. Class

ARRL Member? Birthday Wedding Anniversary

Year 1st Licensed Please supply email 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 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

Address City State

ZIP Phone Lic. Class

ARRL Member? Birthday Wedding Anniversary

Year 1st Licensed Please supply email for SCOPE mailing

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:
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