



The Scope

Central Michigan Amateur Radio Club

Lansing Civil Defense Repeater Association

July 2016
Volume 16
Issue 7

CMARC FIELD DAY WRAP-UP & HAMFEST PREPARATIONS

Well Field Day is now behind us, and hopefully you had enough time to cool off. Please join us for the next CMARC meeting, where we will wrap-up this year's event. This is your opportunity to listen to reports from the Chairman of each station, offer feedback, and to share any stories you may have.

Following the wrap-up, there will time to discuss the upcoming Hamfest at the end of this month. Volunteers are still needed, so if you are available to assist in anyway, please contact Clyde Tompkins/K8CPT. His contact information can be found on the colorful flyer at the end of this issue.

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

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@arrl.net.



John Hosford/KC8QZB, overcome by heat and exhaustion, takes a nap on a pile of ice from the cooler!

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JULY BIRTHDAYS:

07/03 Steve Rauscher / KD8HIW
 07/03 Joe Norton / KD8ZZL
 07/07 Joseph Urdzela / KE8BIK
 07/07 John Schuster / KD8VON
 07/10 David Miles / N9MNR
 07/12 Nick Listermann
 07/14 Bill Cote' / WD8NYW
 07/17 Carl Canfield / K8YHH
 07/19 Raymond Ettinger, Jr. / WD8AZF
 07/23 Adam Valleau / KD8UIL
 07/30 Douglas Goodrich / N8ECL
 07/31 Anthony Parker / KB9WRA

JULY ANNIVERSARIES:

07/03 Jerry / KD8GLN & Sharon / KD8HHK Waite
 07/10 Tom / KB8J & Cheryl / KD8QFE Davage
 07/31 Jean Wixon / K8MUS

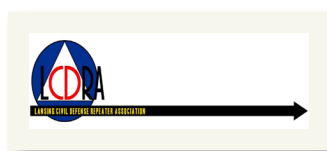
UPCOMING MEETINGS:

ARPSC



The ARPSC meeting for the month of July is at 7:00pm on Monday, **July 18th**. 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



LCDRA

The next quarterly meeting of the "Lansing Civil Defense Repeater Association" will be at 7:00 pm on Thursday, **July 21st**

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!

PUBLIC SERVICE EVENTS:

RACES

Date: **July 5-10, 2016**
 Event: Commond Ground
 Time: 4:00 pm
 Location: Lansing Fire Station #1
 Contact: Jim Hannahs / KC8QWH
 Email: Ginhannahs@Gmail.com

TREASURER'S REPORT 2016

John Doornhaag / KD8NNQ - CMARC Treasurer

Bank Balances for June	
Beginning Balance	\$3,722.18
Total Income for February	\$86.50
Total Expenditures thru Feb 20	(\$219.98)
Total Business Checking	\$3,588.70
Petty Cash	\$41.00
Sub Total	\$3,629.70
Primary Share Accounts	
Humphrey's Fund	\$1,092.83
Building Fund (Club Station)	\$9.09
Field Day	\$472.83
Total Net Worth	\$5,204.45
Youth Fund Balance*	\$253.80
* Separate from CMARC Funds	

VE EXAM SESSION:

LANSING, MI

Date: **7/9/16**
 Time: 11:00 am (Walk-Ins Allowed)
 Sponsor: Ingham County VE Group
 Contact: Don McClain / KB8RAD
 Email: kb8radon@aol.com
 Location: Community Room at Lansing Fire Station #44
 1435 E Miller Rd Lansing MI 48911

LANSING, MI

Date: **7/30/16**
 Time: 11:00 am (Walk-Ins Allowed)
 Sponsor: Ingham County VE Group
 Contact: Don McClain / KB8RAD
 Email: kb8radon@aol.com
 Location: Hamfest - Holt Christian Church
 2424 Washington Rd Lansing, MI 48911

Congratulations Dan and Vicki Dembinski



June 4, 2016

FIELD DAY 2016 CW STATION

By Gregg Mulder / WB8LZG



Well this year's Field Day will certainly go down in the memories of many of the OPS out there who have done FD's in the past. Seems like the only thing that didn't go wrong was the WX.

Our old pal Murphy was out in force this year! Those who came out Friday night got to watch a "lesson" in what NOT to DO. I did not move my truck out of the line of fire, and as I shot an arrow into the air, we all got to

"hear" where it came down! KLUNK! right on the truck! Fortunately it hit the old topper cap and not the windshield. But we all sure got a good laugh out of it.

Saturday morning started out with a "no laptops" emergency! Replacements were located before the starting gun. Whew!

Ken Faiver brought out a 340 ft long "doublet" to play with so we quickly raised it, only to find out it had high SWR on all bands! Pulling it back down and "measuring it out" showed no problems. When hoisted back up, it worked. ??? Ol' Murphy! We got the 20 meter Bruce Array up without a hitch. At the start of the contest we usually start out QRP, and make our 5 "solar power" QSO's for our bonus points. This normally takes about 5 or 10 minutes. After 20

minutes of fruitless calling we "gave up" and went to high power.

The contacts were going into the log at a good rate on QRO. Later in the day when the guys switched to 40 meters, we tried our "solar power" again, and this time we were rewarded with 5 QSO's in about 5 mins. Chris Ranes and I both shrugged our shoulders in wonderment and smiled. Things seemed to get going good after dinner, so at dark I left to get some sleep. Upon my arrival Sunday morning things were perty quiet. The Nite Crew did a FB job and the score near the 400 mark. 40 meters was still playing well when I took a seat at 7am. About noon I switched to 15 meters and had a great little run with about 70 QSO's in short succession.

The end came with at 2pm with 485 QSO's + 100 bonus pts for solar power. Another fun File Day for everyone. We even got a nice write up in the [State Journal](http://www.lansingstatejournal.com/story/news/local/2016/06/25/amateur-radio-operators-host-24-hour-gig-rayner-park/86382552/)* with some FB pictures of Ken, John, and Chris. I would like to thank John for the use of his trailer. Having air condx and hot coffee are spoiling us! We were very comfortable the entire time. Also thanks to all the Operators and Loggers who helped out to make this a successful event. Ken, Ed, Chris, Bruce, Tom, Ron, and a few others, Bravo Zulu guys! Can't wait until next year's Field Day! ■

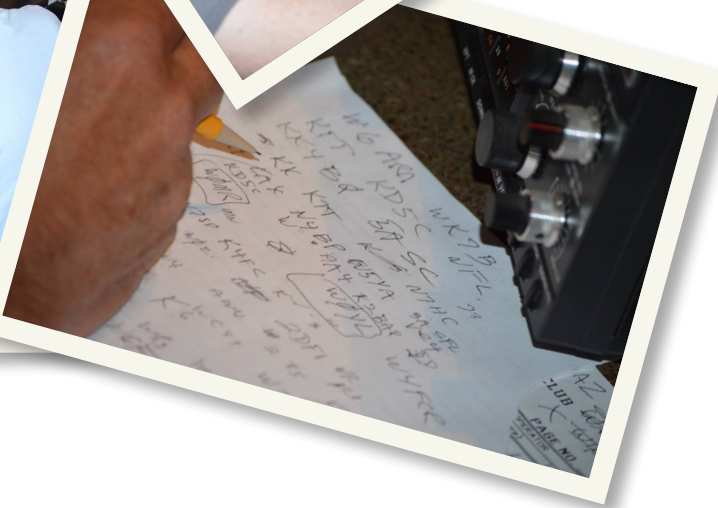
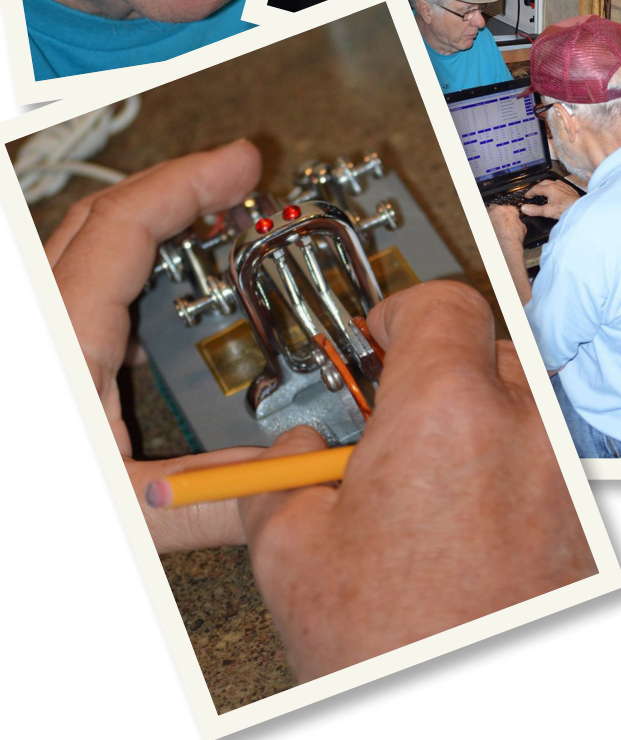
* <http://www.lansingstatejournal.com/story/news/local/2016/06/25/amateur-radio-operators-host-24-hour-gig-rayner-park/86382552/>



The CW Trailer and the Bruce Array 2016

HF CW STATION

PHOTO: SHANNON RANES/WA2NVK



PHOTOS: KENNY HAZLETT/N8BVV

HF SSB STATION



PHOTO: CHRIS RANES/NS8Q



PHOTOS: KENNY HAZLETT/N8BVV

HF DIGITAL STATION



PHOTOS: KENNY HAZLETT/N8BVV

HF GOTA STATION



SAYING ON TOM/WA8WPI'S T'SHIRT



SATELLITE DEMONSTRATION



GENERAL PHOTOS



PHOTOS: KENNY HAZLETT/N8BVV

CONDUCTING THE AUTOPSY ON A DEAD ANTENNA

By Don Keith / N4KC

Maybe I have seen too much CSI on TV. But as I examined my recently expired homebrew hexagonal wire beam, I felt for all the world as if I was conducting an autopsy. An autopsy on an old friend who had stood by me faithfully for better than two years. But I also realized that such a post mortem can be helpful, to me (and hopefully to you) in future projects of a similar nature.

Let me back up a few steps. Several years ago, I began research on various possibilities for an antenna that would offer me some gain, some zapping of signals off the back side, and some side rejection, yet would otherwise fit a long list of other requirements I had imposed on myself. You know, the usual stuff like size, weight, cost, availability of components, and complexity of construction.

There were several possibilities, but I settled on the hexagonal wire beam, that odd-looking critter that most resembles an upside-down umbrella, but without the fabric on a real umbrella that keeps the rain off our bald spots. One reason for its choice was because truly wonderful notes and directions for its construction existed on the Internet, courtesy of Leo Shoemaker K4KIO and Steve Hunt G3TXQ. And I kept talking to guys on the air with big signals who sang their praises, usually at several dB over S-9.

So I gathered materials in my usual plodding way and built it, veering off in a few ill-advised (in retrospect) directions on my own. I was (and still am) so proud of my little upside-down umbrella that I wrote an article about it on eHam.net. It really did perform beyond my expectations, and especially for what amounts to a two-element beam with its elements folded into shapes a contortionist would avoid.

At least it performed well until a few weeks before Thanksgiving. That is when I noticed the SWR running higher than normal. I had

long since stopped looking up at the beam every time I was outside and had started just assuming everything would be fine. But a quick glance upward the next time I was outside told me that the 20-meter wire element had come loose and was draped all over the other elements. And the 17-meter element hung down below the spreaders and base plate on one side. Somehow, the top two elements had let go their grip.

Aarrgh! Well, that was not exactly what I said, but you get the idea. The neighbor kids have sensitive ears.

So, I asked myself, do you pull it down



and fix it or do you spring for a commercially made model that you can trust up there?

I wrestled with that quandary for several weeks, continuing to use the antenna at 100 watts and, believe it or not, actually working a couple of new ones.

See, I confess I have been concerned about a



couple of things in my construction. One was that I had put more tension on the 20-meter wires than Leo's instructions recommended, mainly because it looked perfectly fine to me the way I wanted to do it. And I also worried about where the driven elements tied into the bolts at the beam's center post. I had used short coax jumpers made from stiff RG-8U between each set of elements. The beam uses one feedline for all bands and the jumpers to connect from the top down the length of the center post between sets of bolts that served as terminals for each set of driven-element wires. I had worried that those would either work their way loose or start taking on water, regardless the amount of goop I had used to protect them.

There was one determining factor in my ultimate decision about repairing or starting over: I no longer climb towers, and I do not wish to keep someone who does on retainer, so whatever went back up there would have to last.

See, the truth is, I know the idiot who built my hexbeam. I did not totally trust his fix any more than I did his original construction job. I bought a commercially made beam after doing some more research. Lots of research, because I am a miserly so-and-so.

There are several very, very good suppliers of these beams, but I chose the one sold by K4KIO for several reasons of my own. I have not regretted the purchase. K4KIO, DX Engineering, and Mike Traffie all offer wonderful products and all seem to have stellar customer service. I chose the one I did primarily because I liked the way the elements attached to the center post, which is sealed, and the fact that the antenna is not a kit and appeared to be very easy to put together, even for a guy with minor nerve damage from a previous immune-system disorder and who lacks most normal mechanical skills.

Continued on Page 11

In short, this version offered no short, stressed, thirsty coax jumpers. Good ropes out to all the spreaders to help hold the shape. And only a couple of hours of work to put it together. Even the price was not outrageous when you consider the fact that it is a six-band beam—I opted for the six-meter element, too, which would never have worked in my previous homebrew configuration.

When I got the old beam down, I decided to do a careful autopsy, not with scalpel and bone saw but with nut driver and diagonal cutters. If you do likewise, I suggest you do all you can to keep the antenna intact, just as it was, broke stuff and all. Avoid the temptation to tell your tower guy to just drop it. Try not to do any more damage on the way down and over to the corner of the yard for its autopsy...er...inspection.

When you get the chance, give the thing a thorough going-over. What else broke that you did not notice or that did not show up on the SWR meter? What gives the appearance of being on the verge of going bad before the other malady happened first? What can you do in the future to avoid this? On the other hand, what has held up well?

Here is what I found in my case:

- My so-called stainless steel hardware from a big-box store rusted terribly. The bolts in the center post that held the ends of the wire elements were the worst, though they had not yet failed. It would have been only a matter of time, though.
- On the other hand, the stainless steel U-bolts and hardware that I bought along with a commercially made aluminum base plate (from W4RDM) looked as good as they did the day the thing went up. Bright and shiny.
- The fiberglass spreaders—also purchased commercially, from Maxgain Systems—looked fine. I did spray-paint them prior to construction to protect from those pesky UV rays.
- Amazingly, those coax jumpers I most worried about held up just fine. I pulled the insulation back on a couple of them to see if they had taken on water and I saw no signs of it.
- The antenna wire—a non-insulated flex-weave with stainless steel strands woven

in—showed some signs of rusting but except for a few strands that had sprung loose, still seemed to be solid, even on the two elements that were drooping. The wires had not broken.

- Ah, the real culprit. I used tie-wraps through hose clamps to hold the wires in place on the spreaders. At high-stress points, I backed those up with small bits of rope. Well, either the antenna wires sawed through several of the tie-wraps—maybe because of the wind moving the spreaders a bit—or the “UV-proof” tie-wraps weren’t. Several of those not also supported by short lengths of rope had broken and that was what allowed the elements to break loose. If they had held, I would not be writing this article. At least until the rusty “stainless steel” bolts gave way.

I did discover a double-whammy shaky connection in my coax connector that attached my feedline to the pig-tail I had going up to the antenna feedpoint. Whew! Glad I did! Turns out both the PL-259 and a barrel connector there had problems and were intermittent. That gave me and my tower guy a bit of heartburn for a few minutes until we isolated the problem. Neither of us wanted to take the antenna back down and check connections on it again. (And yes, we had done that—thoroughly—before we put it up there! The problems only showed up when we did the weather-proof wrap at the junction point.)

Take advantage of having everything apart to thoroughly inspect feedline, connections, rotor and anything else that stays out there in the weather 24/7 while you are inside in your toasty, warm shack. Sometimes we concentrate on fixing whatever the glitch is and overlook something else that could go goofy on us.

So, if I decide to build a wire beam in the future, I will choose better quality hardware and use some kind of backup to the tie-wraps. I will also be more careful about putting undue stress on the wire elements and their attachment to the center post. I do still have a perfectly good base plate and spreaders and am contemplating doing a single-band, portable version, just for the heck of it.

By the way, I do not want this article to reflect negatively on the hexbeam, bought or homebrewed. It is a very good antenna option if you want something light, durable, and surprisingly effective.

You know, I still have a suspicion that a very large hawk that was frequenting our neighborhood—hopefully feasting on coax-insulation-eating squirrels, but that is another story—may have had something to do with the sudden failure. We did not really have any serious wind or ice, but that phoenix-like critter might have hurried along the inevitable failure of my pride-and-joy beam.

Do hawks forfeit any protected status if they get in the way of my quest for DX and long-winded ragchews?

We’ll see what the guys at CSI have to say about that one! ■

Copyright by Don Keith N4KC, reprinted by permission. Don writes many articles on Amateur Radio, available at his web site, www.n4kc.com, or in his various books on our hobby. See www.donkeith.com for info on those or other books by N4KC.



'SHOULD HAMS PREP?' REVISITED

By Keith Wood / KA7EKW

In a recent eHam column ("Do you 'Prep'? Should You?"), Dan Kolton K0AST commented on the connection between hams and preparedness.

Prepping comes naturally to most hams -- the only difference between the average operator at a ham swap and the end-of-the-world type is degree.

The Hamfest raven goes for, say, an antenna connector, and brings home that really great deal on 150 feet of coax, a box of assorted connectors (including half a dozen of the type that was needed, at half the cost of buying one each), an extra couple of battery packs for the HT, that soldering iron that is a little beat up but far better than the one which will now go from bench into toolbox, another TOOLBOX . . .

We just tend to acquire stuff that we expect to need at some point in the future, simply because we run across someone willing to sell cheap or swap.

Ham equipment doesn't breed, but a look in the garage of most hams would make you think otherwise -- and that's ALL "prep."

This often goes over into other aspects of the ham's life. We might buy three cans of tomato sauce, but we're likely to watch for a sale and buy a case, or we go to Sam's Club and buy the #10 can -- maybe even two of them -- and containers to freeze the leftovers.

The neighborhood ham is the one likely to have extra tools, extra wire, extra flashlights (and batteries), extra HTs, extra GENERATOR . . .

In fact, there are plenty of hams who not only have generators, but actually live off-the-grid, with solar panels for power and a lifestyle which just naturally includes power management. One friend of mine takes this one step beyond, not only being a ham but also being Power Resource Officer for the International Space Station.

Then there are those who live the "mobile lifestyle," and I've seen a couple of very elaborate all-band-all-mode stations in RVs. These are the folks whose trips to Quartzsite or Dayton are just "this week's destination," rather than an expedition. I know (and envy) one full-timer who has a

pneumatic-telescoping antenna mast (the type seen on TV news vans) on his RV, and puts up his HF multi-bander at the flip of a switch.

Over the years, I've discovered that there is a subtle divide between "Hobby hams" and "Practical hams." The Practical sees the radio as a tool, a way to keep in touch and just one part of the whole family preparedness arsenal. He (mostly "hes", but not all) parks his cars with the grill facing the road, has more HTs than he has family members, gets on selected nets for check-in but otherwise only has the radios going when he expects to talk to someone he knows, has the gleaming Vibroplex DeLuxe connected to the HF rig he paid \$800 for at the Hamfest, and wishes that he had room to put up a Beverage antenna. The Hobbyist is the one with a wall of QSL cards from old friends he'll never meet, the gleaming Vibroplex DeLuxe connected to the \$5000 HF rig he bought at the candy store, and who wishes that he had room to put up a Beverage antenna.

Wait, WHAT? They sound pretty much the same.

That's right, there isn't a lot of difference between the two -- mostly in the way they think about the radio, and in a disaster, both are likely to be looking for the chance to put their skills and experience to use, helping the community.

Given how much alike we are it just makes sense for the Practical lifestyle to migrate into the Hobbyist's home. You can't help the community if you are yet another victim.

So, as a Hobbyist, this is a good time to look around your home and see what you could do to improve things. Is your water heater secured in place, so that it won't shift or fall during an earthquake? Do you have a three-day pack ready for each member of the household, in case you have to leave the home after an event? Do you have enough food to get by for several weeks, if necessary -- and how about the water you'll need?

Prepping can actually SAVE you money. Remember the tomato sauce? You'd be surprised how much less you pay for it in

larger quantities, compared to buying the itty-bitty cans when you need them. Just about any food can be bought in bulk, at a far lower per-unit price than the standard shelf prices. Even if you don't use it all before it spoils, this can still be cheaper in the long run. A practice known as "painless food storage" is to spend the same gross amount on food purchases per paycheck, but buy in bulk at lower prices, building your reserves over time.

What about CASH? Money in the bank is only of use to the bank. Keep enough in your account to operate on, but the rest should be in a fire-resistant safe at home or office, with your important papers.

Look at your safe, while you're at it. You can often find large safes for sale at a much lower price than the small ones, especially on places like Craigslist. They're heavy, and a pain in the neck, so they're harder to sell when someone is moving, or a landlord has taken back an office. I've had safes given to me by people who had been unable to sell them; all I had to do was take them away. One note for those who buy "gun safes" -- most of these are WORTHLESS, little more than cabinets with fancy-looking locks. They are NOT given an Underwriters Labs rating for fire resistance. For that matter, never put ammunition in a safe with your guns, because it is likely to cook off in a fire, thus burning the papers and guns in there with it.

When you live a Practical lifestyle, you might buy the Vibroplex, but when you get the DeLuxe, you're not doing it for the chrome, you're doing it because the added cost vanishes over the hours spent using the jeweled movement.

So, to answer the question of whether or not you should "prep," my response is "Why WOULDN'T you?!" ■

[A special thanks to Keith Wood/KA7EKW and Clinton Herbert/AB7RG of www.eham.net for the use of this article.]

Do You 'PREP'? SHOULDN'T YOU?

By Dan Kolton / K0AST

Okay, I'll be the first to acknowledge I think TEOTWAWKI (The End Of The World As We Know It) crowd is a little off their rocker. Sure, mankind has gone through some tough times, and in a nuclear age, even tougher times are always a distinct, if remote possibility.

That said, shouldn't we all be doing at least a little "prepping"?

Several years ago, the power went out at our house for 9 days. It affected a large area, which also meant no power for gas stations, restaurants, and all those other conveniences one takes for granted. Over the years I had always kept a 4000w generator around, as well as 25-35 gals of stabilized gas, much to the delight of my wife who liked to poke fun at me for it. Well the year we lost power for nine days, she took it all back.

Unfortunately I did not have enough gas to last nine days, and had to drive roughly 15 miles to find the nearest working service station. The lines were 1/2 block long; the tempers were a hair short. I waited my turn, refilled all my cans, and headed back home. That year we would run the heat in the house up to 85 degrees at night, shut down the generator, put it away, and wake up to 53 degrees in the morning. BTW, did I mention it was VERY cold out?

So why bring this up now?

We lost power again to a windstorm around noon yesterday. And I was out of gas. So I dutifully went to get gas at the nearest (maybe 8 miles away) working station, as

well as ice for the fridge. No need to run the generator set when it is not cold out, but better to be prepared for the long haul. Anyway, tempers were already flaring a mere 6 hours after the power had gone out, and ice was already in short supply.

Last night, on the local VHF net, a few of us were working off battery power, and a few definitely did not check in because they had NO power of any kind. I checked our own 'battery box' to find a significant lack of AA batteries. No 9-volts either.

Are we good hams if we cannot respond to even a minor possibility of an emergency?

I won't even go into prepping of food here. And I certainly will not address weapons, a big political football.

Personally, I live in the Seattle region, an area now known for being one standard deviation past having a 'big one' earthquake. In a recent New Yorker Magazine article, this was addressed, and later followed up upon by the same author in answer to his quoting a FEMA official saying the region would be 'toast' if the big one hit.

In our particular case, given geography and highway/road systems, FEMA believes our region would become a number of 'pockets' of civilization that would encounter difficulty leaving their areas. One need only look back upon Hurricanes Katrina or Sandy to see how woefully unprepared the feds would be in such a situation.

Yesterday, as I drove to get some gas for the generator set, I paid particular attention

to how I would 'evacuate' my own QTH if needed. It didn't look all that good if cars were blocking the roads, out of gas, or worse.

So this year, I am becoming a 'prepper'. The gas has been replenished; every family member's car is getting a 24-hour bag of necessities in case they need food, or outdoor gear for survival to get home if 'the big one' comes. And I plan to stock up on enough water and canned goods for at least 3-4 weeks.

What will this all cost me to do it right? Maybe \$1.5-2k, but I spend that on vehicle insurance alone every year. Isn't my family worth it otherwise?

I'm joining the 'preppers'.

Shouldn't you? ■

Links:

<http://www.newyorker.com/magazine/2015/07/20/the-really-big-one>

<http://www.seattletimes.com/seattle-news/environment/if-you-think-new-yorkers-earthquake-story-is-scary-better-read-this/>

<http://www.newyorker.com/tech/elements/how-to-stay-safe-when-the-big-one-comes>

[A special thanks to Dan Kolton/K0AST and Clinton Herbert/AB7RG of www.eham.net for the use of this article.]

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 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.

SPECIAL BOARD MEETING

June 3, 2016

❖ PRESENT:

- President Tom Rocheleau/WA8WPI, Vice-President Russ Fitzgerald/N8FZ, Treasurer John Doornhaag/KD8NNQ, Secretary Jane Hosford/KC8FSK, Director Chris Ranes/NS8Q, and Under 22 Director Sam Fitzgerald/N8FPR.

❖ CALLED TO ORDER:

- President Tom/WA8WPI brought the meeting to order at 6:44 pm.

❖ PURPOSE OF MEETING:

- Appoint a replacement Director after the passing of Julie McLain/KB8ZXR.
- Treasurer John/KD8NNQ talked to Ted Sadilek/WA8MFQ, and Ben Barker/WD8OVL, and they both expressed an interest in the position.

❖ MOTIONS:

- Vice-President Russ/N8FZ made a motion, seconded by Treasurer John/KD8NNQ, that we appoint Ted Sadilek/WA8MFQ to the Director position. The motion passed and Ted Sadilek/WA8MFQ is filling the Director position until the end of 2016.

❖ MEETING ADJOURNMENT:

- Under 22 Director Sam/N8FPR made a motion to adjourn, seconded by Vice-President Russ/N8FZ and approved.
- The meeting was adjourned at 7:32 pm

Respectfully submitted,
Jane Hosford/KC8FSK-Secretary

CMARC BOARD MEETING

June 10, 2016

❖ CALL TO ORDER:

- President Tom Rocheleau/WA8WPI called the meeting to order at 7:00 pm with the following board members in attendance: Vice President Russ Fitzgerald/NS8Q, Secretary Jane Hosford/KC8FSK, Treasurer John Doornhaag/KD8NNQ, Director Chris Ranes/NS8Q, Director Ted Sadilek/WA8MFQ and Under 22 Director Sam Fitzgerald/N8FPR. Also present at the meeting were Clyde Tompkins/K8CPT, Michael Boensch/WA8MKB and Ben Barker/WD8OVL.

❖ HAM FEST:

- Clyde Tompkins/K8CPT is chairing the Hamfest this year. The Board has assured him that we will help in any way we can and he is willing to delegate. The Hamfest flyer has been changed to Clyde's information.

❖ CARDS & FLOWERS REPORT:

- The Club received a thank you for the \$40.00 donation made in honor of William (Bill) Serviss/KD8HHN, to feedOne, PO Box 219368, Kansas City, Missouri 64121.

❖ MEETING ADJOURNMENT:

- Motion to adjourn made by John/KD8NNQ, seconded by Sam/N8FPR, and approved.
- Meeting was adjourned at 7:16 pm.

Respectfully submitted,
Jane Hosford/KC8FSK-Secretary

GENERAL CMARC MEETING

June 10, 2016

❖ CALL TO ORDER:

- President Tom Rocheleau/WA8WPI brought the meeting to order at 7:20 pm.
- We do have nametags for everyone if you don't have your own, so please use, so we know who everyone is. Please sign in on the sign in sheets that are going around, there is one for members and one for visitors.
- We started the meeting by doing the Pledge of Allegiance. The flag was held by Sam/N8FPR, our Under 22 Director.
- A moment of silence for our silent keys

❖ ATTENDANCE:

- There 39 people in attendance.
- Our visitors included: Jessica Seaver, Zowie Beha, Mary Tillitson, Ken McGuire/KC8LTL, Matthew Miller/KD8OOS, and Vicki Dembinski

❖ DX CONTACTS:

- Clyde/K8CPT - Russia and John/KC8QZB - Sarajevo

❖ SILENT KEYS:

- Michael Mather/KA8PME on May 15, 2016

GENERAL CMARC MEETING

June 10, 2016

❖ CARDS & FLOWERS REPORT:

- A card was sent to the family and a \$40.00 donation was made to Mather's Fire Fighter Fund, c/o Dorothy Mather, 10914 W Herbison Rd., Eagle, MI 48822

❖ NATIONAL PARKS ON THE AIR (NPOTA):

- Sponsored this year by the ARRL in celebration of the 100th anniversary of the National Park Service. There are a total of 483 units of the National Park Service (National Parks, National Battlefields, National Monuments, etc.) and hams are being encouraged to operate portable from them throughout 2016, complete information about NPOTA can be found at: <https://npota.arrl.org/index.php>. Each park has been assigned a 4 digit descriptor (two letters and two numbers) by the league. To make it a lot easier to keep track of which parks you've contacted, Joe/W8JRK organized the listing of parks into a checklist and posted it on his domain. Please feel free to download it.
- Don DeFeyer/KC8CY has 268 parks & Ben Barker/WD8OVL has 151 parks.

❖ PLEASE PAY YOUR DUES:

- CMARC dues to John/KD8NNQ
- LCDRA dues to Michael/W8MKB
- NEW HAMS GET ONE YEAR FREE MEMBERSHIP

❖ NEW BUSINESS:

- Ted Sadilek/WA8MFQ is our new Director for the rest of 2016
- A motion to accept the May secretary's report as printed in the June Scope was made by Mark/KD8YUY, seconded by Sam/N8FPR and approved.
- A motion to accept the May treasurer's report as printed in the June Scope was made by John/KE8CYC, seconded by Jerry/KD8GLN and approved.
- Charlotte has VE Testing tomorrow
- Need to finish up the 501(c)3 paperwork

❖ UNDER 22 REPORT: None

❖ 50/50:

- Matt Beha/N8PPI won \$16.50

❖ MOTION FOR BREAK:

- Sam/N8FPR, seconded by Ted/WA8MFQ, and approved.

❖ THURSDAY NIGHT NET 145.39:

- The first hour is voice and the second hour is CW.

❖ CLUB ROOM SPRUCE UP:

- Russ/N8FZ is the chairman of this project and is collecting license plates to put up on the wall. For \$2.00 you can get an additional plate. The forms are on the State of Michigan website, www.michigan.gov/sos or you can get a form from Russ/N8FZ. ***If you do bring in a ham plate that you want put in the collection, please give it directly to Russ/N8FZ, so he knows that it is here.***
- Will probably start clean-up work in the Club room, hopefully in August.

❖ COFFEE FUND:

- The money collected each month goes to purchase the coffee, creamer, punch, coffee filters, cups, napkins, plates, plastic ware, etc.. Visitors are our guests and are not expected to donate. Also, if you brought in food, you do not need to donate.
- ***Thank you to everyone who brings in food each month and thank you to everyone who helps in the kitchen each month. It is all very much appreciated.***

❖ UPCOMING EVENTS:

- Field Day is June 25th and 26th. Ron/WD8BCS is the Field Day Chairman. John Hosford/KC8QZB would like a co-chair for the voice station. There is a schedule of events in the June Scope.
- Ham fest is July 30th. Clyde Tompkins/K8CPT is our Ham fest chair this year. We always have a lot of fun, so please, come and join us that day.

❖ TONIGHT'S PROGRAM:

- Matt Beha/N8BPI showed pictures of the Dayton Hamvention this year.

❖ MEETING ADJOURNMENT:

- Motion to adjourn made by Sam/N8FPR, seconded by Russ/N8FZ, and approved.
- Meeting adjourned at 8:38 pm.

Respectfully submitted,
Jane Hosford/KC8FSK-Secretary

CLASSIFIEDS

6 element 6-meter Yagi-Uda. This Yagi is being taken down from the W8SH tower. It is a "Force 12" yagi and has been up on the mast for 20 years. It is in working condition, although it could use a good cleanup. \$75 or best offer.

J-37 Hand Key - \$20

J-38 Hand Key - \$20

Speed-X Hand Key - \$20

Contact Gregg Mulder/WB8LZG
517-646-6257 after 5pm please.

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.

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

Contact Ken Faiver/W8HNI
517-896-3570 or
kfaiver@sbcglobal.net

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. \$90 or Best Offer

Contact Ed Oxe / W8EO:
eaoyer@gmail.com

ICOM IC-746 Transceiver - \$750
Comes with hand mic, DC power cord, instruction manual, and service manual.
ICOM SM-8 DESK MIC - \$100.00
Voice Synthesizer UT-102 - \$40.00

Package Deal - \$800

All working great and look nearly new. I have the original boxes for everything.

Contact Jim Hein/K8UHF:
k8uhf@sbcglobal.net

Connect Systems CS700
Handheld DMR Radio - \$150

Contact Joe Urdzela/K8JJU:
JJUrdzela@gmail.com

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

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

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.

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 / Webmaster
Tom Rocheleau, WA8WPI

Vice President / Youth Liaison
Russ Fitzgerald, N8FZ

Secretary / Cards & Flowers
Jane Hosford, KC8FSK
(517) 505-7610

Treasurer
John Doornhaag, KD8NNQ
(517) 882-5406

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

Under 22 Director
Sam Fitzgerald, N8FRP

Club Contact
Don McLain, KB8RAD

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

Salvation Army Liaison
Jerry Waite, KD8GLN
(517) 882-5406

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
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, NS8Q, at cmarcscope@gmail.com.
The deadline for each issue is midnight on the 20th of the preceding month.

2016 CMARC "OUTDOOR" HAMFEST

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



ARRL
Sanctioned

Sponsored by the
Central Michigan Amateur Radio Club

Saturday, July 30, 2016

8:00 AM to 1:00 PM

(Setup Saturday 6-8AM)

at the

Holt Christian Church
2424 Washington Road
Lansing, MI 48911



Talk-in 145.390
(100Hz PL)

ADMISSION: Public = \$4.00 each, Kids 15 and under FREE!! (HANDICAP ACCESSIBLE!!)
Vendors/Sellers = \$4.00 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 Clyde Tompkins K8CPT (517.489.2014 or k8cpt@qsl.net)



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

Dealer Jon Rohde
(accessories for Ham,
Commercial, GMRS or CB)

Tennadyne and Cubex Quads

Dealer Roger Greenfield
"Aluminum with a PHD"

D & G Computers

Dealer Shaun Blain
(Service and Repair)

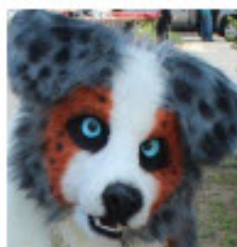
DXCC CARD CHECKER

Must call Stan Arnett AC8W (810) 364-6674 for appointment! & info
Hamfest Checking Hours
8am to 12pm. Can't check 160-m
Cards! Fill out DXCC application
at <http://www.arrl.org/dxcc> and
bring with you, also Record Sheet
and SASE. Pay by credit card
online.



VE TESTING

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



TYCHO AUSSIE

CMARC's 6' 3" Mascot is
back again this year!!



STRONGWARE

Custom Callsign Mugs
made-to-order
while you wait!!

DOOR PRIZES!!

We will have hourly prizes with our **GRAND PRIZE** being a **YAESU FT-2900R/E MOBILE 2-METER** Drawn at 1pm!!

FORUM

"ASTERISK" a framework for building multi-protocol, real-time communications applications and solutions. Time for Q&A (9am-10:30am)

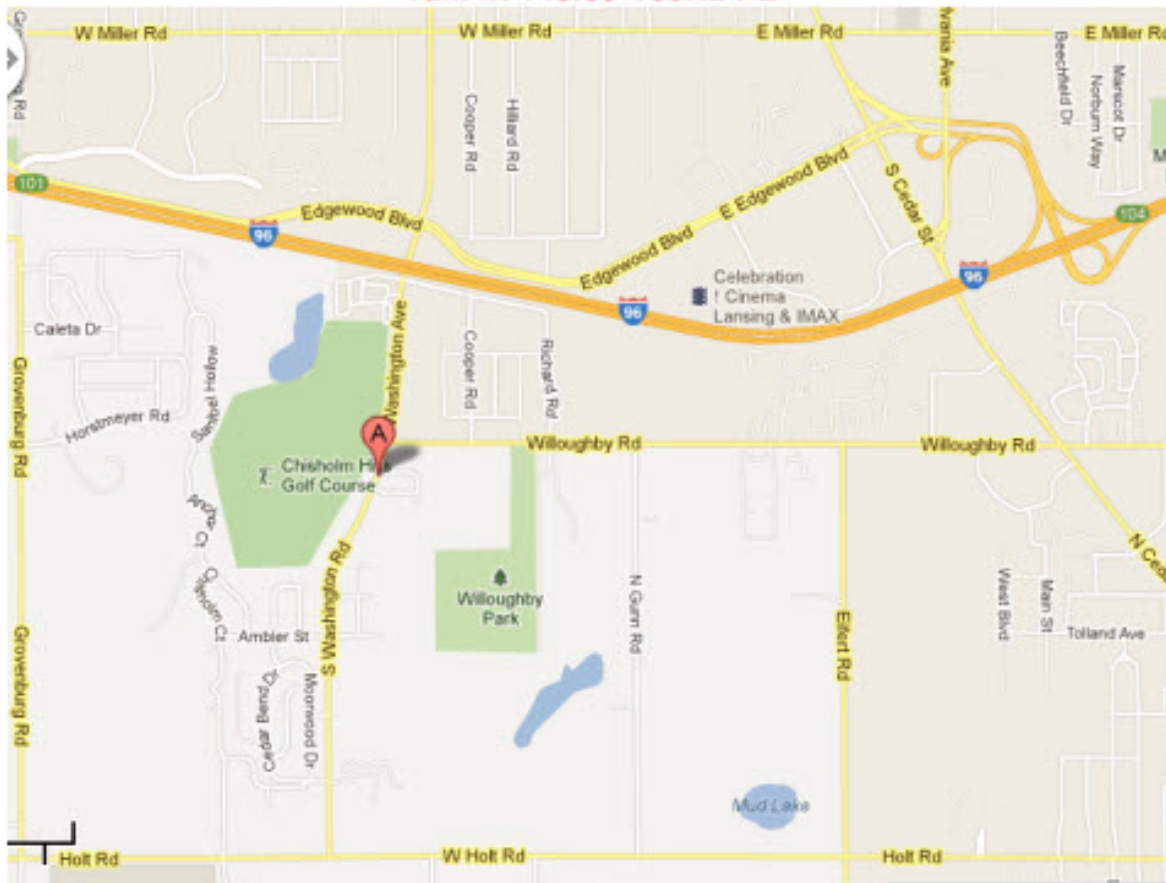
ARRL's LARRY CAMP WB8R

Michigan Section Manager
Great Lakes Division

G.O.T.A. STATION

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

Holt Christian Church, 2424 Washington Road in South Lansing
Talk-in 145.39-100Hz PL



PLEASE JOIN US FOR THIS YEAR'S
CMARC "OUTDOOR" HAMFEST!!
COME "RAIN OR SHINE" YOU'LL HAVE A GREAT TIME!!



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		Call Sign
Address		City State
ZIP	Phone	Lic. Class
ARRL Member?	Birthday	Wedding Anniversary
Year 1st Licensed		Please supply email address for SCOPE mailing
<input type="checkbox"/> Full <input type="checkbox"/> Associate <input type="checkbox"/> New Licensee (1yr. free) <input type="checkbox"/> 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)		

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		Call Sign
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)		
Mail Your Check or Money Order to: Michael Boensch 1897 Sunnymede Ln Lansing, MI 48906 (Checks made payable to LCDRA)		



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