



The Scope

Central Michigan Amateur Radio Club

Lansing Civil Defense Repeater Association

November 2016
Volume 16
Issue 11

Zoo Night at CMARC

Our program speaker will be CMARC Board Member Ted Sadilek/WA8MFQ. Ted is a Docent (and trained raptor handler) at Lansing's Potter Park Zoo. With the help of a fellow Docent Bob Frease, they will once again be bringing a delightful assortment of animals from the Zoo into our Club for display and will give us background information on each of them. Please be sure to bring the kids (and your cameras)! There will be an opportunity for a close-up look at the critters and some time for questions and answers. You surely won't want to miss this one, so bring out the whole family and join us, because we're going to have a great time! Also, sometime during the meeting we'll be accepting your Nominations to fill four Board positions, and the Under 22 in preparation for the December Election. So, be sure to make it out to a FULL meeting, and we'll see you there!



When: CMARC Monthly Meeting
7:00 pm, Friday, November 11, 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.



PHOTOS: KENNY HAZLETT/N8BVV

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November Birthdays:

11/1 Daniel Beuchert/WX8MOJ
 11/3 Elizabeth Johnson/KD8HRH
 11/8 Michael Mather/KA8PME
 11/9 Mark Carter/KD8YUY
 11/15 Matthew Miller/KD8OOS
 11/15 Beverly Stoner/K8ZJU
 11/16 Stephen Binns/KD8WVG
 11/18 Linda Dunahoo
 11/18 Marvin Sommer/WB8OIP
 11/24 Bernard Gaffney, Jr/W8BFG
 11/24 Donald Tillitson/WB8NUS 91st
 11/25 Daniel Dembinski/KD8YDE

November Anniversaries:

11/1 Douglas Goodrich/N8ECL
 11/8 Erv/W8ERV and Laurie Bates
 11/9 Jim/KC8QWH and Ginny/WD8HPG Hannahs
 11/26 Jimmy/KD8IWQ and Linda Dunahoo

Upcoming Meetings:

CMARC

The next meeting for the Central Michigan Amateur Radio Club is Friday, **November 11th** at 7:00 pm at the Salvation Army South Corps, located at 701 West Jolly Road, near the corner of Washington Avenue & West Jolly Road in Lansing.

ARPSC

The ARPSC meeting for the month of November is at 7:00pm on Monday, **November 21st**. We will be meeting at Lansing Fire Station 8 off Marshall Rd, South of Grand River. For more information about the ARPSC, please check out our website at www.lansingarpssc.com

ATTENTION LADIES

If you are interested in having a Ladies Tea Time Christmas party this year, please contact Jane Hosford/KC8FSK and let her know. So far there are several ladies interested, but more would be favorable.

**Home: 517-515-7610 Cell: 517-940-0412
 Email: jlhosford54@hotmail.com**

Treasurer's Report 2016

John Doornhaag / KD8NNQ - CMARC Treasurer

Bank Balances for October	
Beginning Balance	\$3,565.17
Total Monthly Income	\$408.81
Total Monthly Expenditures	(\$164.61)
Total Business Checking	\$3,758.53
Petty Cash	\$41.00
Sub Total	\$3,799.33
Primary Share Accounts	
Humphrey's Fund	\$1,093.19
Building Fund (Club Station)	\$19.09
Field Day	\$551.40
Total Net Worth	\$5,463.01
Youth Fund Balance*	\$253.88
* Separate from CMARC Funds	

VE Exam Session:

Lansing, MI

Date: **11/12/16**
 Time: 11:00 am (Walk-Ins Allowed)
 Sponsor: Ingham County VE Group
 Contact: Don McLain
 Email: wb8tgy@yahoo.com
 Location: Eaton Cty Sheriff's Dept EOC
 1025 Independence Blvd (Enter Back of Bldg)
 Charlotte, MI 48813-1031

Larry Camp/WB8R will be joining us at our Annual Christmas Potluck in December to make a special announcement regarding a multi-club operating event at MIS (Michigan International Speedway).



2016 CMARC Annual Christmas Potluck

Who?

All Members and Friends of CMARC, Along with Your Families

Where?

The Salvation Army South Corps. Building

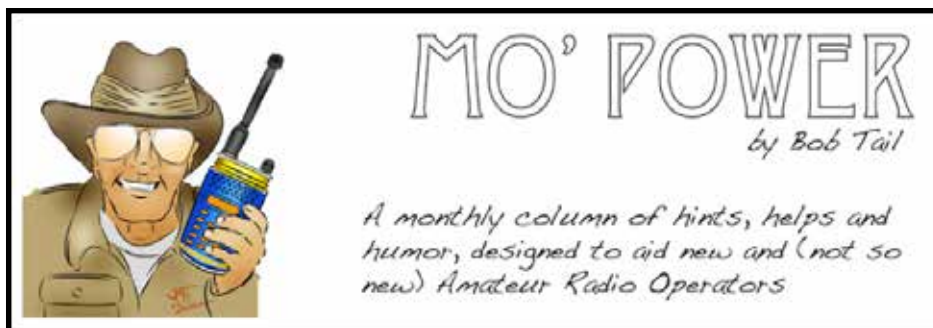
Located at 701 W. Jolly Road in Lansing

When?

Friday, December 9, 2016 @ 7:00 PM

What Should I Bring to Eat?

Bring your favorite Appetizer, Casserole, Salad, Holiday Dessert, Christmas Candies, or Non-alcoholic Beverage. Crock pots of hot food are always welcome too!



Went to the hammy club meeting the other night, Had a jolly time watching what the kids were up to. The airwave had been “hot” as the season turned and everyone was telling of their DX conquests! Our boy Ned Novice was bragging about the latest DX that he’s worked, and the lovely Nil Current just stood by politely listening, not wanting to rob Ned of any DX glory. Some of the gang there talking about aerials. Funny how sooner or later hams will end up talking about skyhooks. A couple of the lads had some questions for some of the Old Timers about antenna troubles. It seems both of them had just put up new aerials and neither one had any good experiences with them. Both were ready to give up and try something else.

Antenna #1: Jim has a Half Wave End Fed Wire with a 9 to 1 balun for 20m with middle up about 12 meters in a tree. Won’t match on any band even with a tuner. When asked if he has tried adjusting the length? No. The first rule of thumb: All antenna installations are different. The same piece of wire that plays miserably at one QTH plays beautifully at another’s QTH. Many things come into play with a new antenna. Trees, buildings, other supports, and even other antennas. What to do? Experimentation is the order of the day. Tried a counterpoise on that tuner? If that doesn’t give some improvement, try adding about 1 or 2 meters of wire. Some half wave antennas resonate more easily if they are slightly longer than ½ wavelength. Both of these remedies were simple to try. Jim said he’d give us a report back next month. I’ll just bet with a bit more wire ; he’s able to get a good match now.

Antenna #2: Harry just bought one of the commercial trap vertical antennas. He and a couple of buddies put it all together and installed it up on a 4-meter metal pole with about 1 meter anchored in the ground. They cut a radial or 2 for several of the bands. Upon testing, they couldn’t get a good match. Even the rigs internal tuner objected. Ned piped in right away with “you need more radials,” he said, “cut to the part of the band you want to operate.” I also agreed with that as the easiest way to test it out. Nil was thinking a lot about it and finally said “what about the possibility of you putting a trap in the wrong place?” “Hmmm, a very good thing to check I reasoned. It won’t like RF at all if there’s a trap out of order. Since Harry lived a short distance away, we all decided to go over to the meeting and give him a hand.

Upon arrival, everything “looked OK” on initial inspection. Ned asked, “Had you tried adjusting the full antenna length?” “Sure have. But any variation from specs just makes it worse” Harry pined. “Well

let’s get some more radials on this beast and try to tame ‘er!” Ned said.

Soon they had four radials a piece for 3 of the bands of choice. “Now let’s have a go at it,” I said to Harry, and motioned for him to fire up the rig. We all had high hopes and watched in anticipation. A quick test showed almost no improvement. Upon doing an SWR check, it was found that all the bands showed resonance 200Kcs below the bottom of the band edge. Perplexing to be sure. Nil was scratching her head again, “got to be something too long,” she exclaimed. “What about the feedline?” “What about it,” Harry said, “I got the good stuff RG-9913 to get every milliwatt out to the ether.” I thought about this for a moment. Nil’s a bright lass. I’ll just bet she’s figured this out mathematically. The truth is, I’d seen a similar situation years before at a friend’s antenna party. His feedline turned out to be just a 1/2 meter longer than a ¼ wave. It acted a radial for a frequency somewhere lower than the intended target. “What have we got to lose?” I said. “Ned, pass me those Dykes.” “What cha doin?” Ned queried as he reached over to grab the diagonal cutters. Nil chimed in. “We’re going to tune the aerial system by tuning the COAX!” “About soo,” I said as I sized up where to cut, and Nil nodded in agreement as I snipped it off a ¼ meter shorter. We made quick work of stripping back the new end and attached it per mfr’s directions. Then all of us raced to the shack to see the results. A quick check of the SWR curve on a few of the bands showed good! Under 1.5 to 1 SWR across much of the desired bands. Now the big test, calling another station. Harry called the 1st CQer he came across. As his call came back in the speaker, a big cheer came up from the antenna gang. “Yes!” Harry exclaimed. We made a half-dozen QSO’s from Perth to Brisbane to Darwin, and down to Hobart.

It was getting on to the end of the day, and we had to be leaving. Harry thanked us for solving his aerial woes. The kids and I went out to the soda shop for a treat to celebrate. “persistence does pay off!” Nil said. “Sure nuff” Ned agreed. The kids went into who tops the latest albums on the charts, having a good time. I just slurped my soda in silent satisfaction, knowing that with smart kids like Ned n Nil, the ionosphere was in good hands!

Until next time, if your aerial didn’t come down, it wasn’t high enough. If it did come down, put it back up higher! ■

73, Bob Tail

Celebrating your club's Elmers might encourage others

By Dan Romanchik, KB6NU

When he's not Elmering new hams, you'll find Dan building kits and working CW on the HF bands. He is the author of the "No Nonsense" amateur radio license study guides, and blogs about amateur radio at KB6NU.Com. You can contact him by e-mailing cwgeek@kb6nu.com.



Sam, W5KF, recently sent me a link to the Elmers' page on the Norman, OK South Canadian Amateur Radio Society (SCARS) website. Not only is it a listing of the club members who have stepped forward to Elmer new members, but also provides ways to honor current and past Elmers. This is from the SCARS newsletter:

"Elmer List on the W5NOR.org website

"This week we talk about a brand new feature on the W5NOR web site. In the amateur radio community, an experienced amateur radio operator who mentors a new or prospective ham is commonly called an "Elmer". In our hobby, that seems to be a great way for knowledge to be transferred.

"Yes, we all have taken an FCC test to receive our license, however that's only the starting point. Remember that person that helped you set up your first radio, or gave you the courage to press the PTT button, or answered endless questions about a radio, or an antenna? That's the kind of thing we're talking about.

"Thanks to a great suggestion from Gary Skaggs WB5ULK [not sure it was my idea. – Editor], we've created the SCARS Elmer Page, located at <http://w5nor.org/elmers>, for us to celebrate Elmers; past, present, and future. We provide a place for Elmers to list their specialty, and contact information, which allows new hams to find someone they can ask questions of.

"Since this is a new section of the web site, this list is rather short. If you're willing to help others on a given topic, send a message to n5hzz@arrl.net and you will be added to the list. Right now we need lots of different categories, like antennas, radio setup, HT programming, contesting, satellite operation, high power operation, test gear, building your own gear, repairing radios, APRS, D-Star, DMR, CW, logging, etc. oh well, you get the idea.

"You don't need a PhD to be listed here. You just need a willingness to help others in a given area. It's OK to be a new ham, and be listed here. You may have just struggled through your first space contact, but you'll have infinitely more knowledge than the person who's been a ham for 40 years, and has never tried that portion of the hobby.

"Also, there is a link to the "ARRL Elmer Award" page of the American Radio Relay League's web site. Here, you can enter your favorite Elmer's name and callsign. The ARRL will print a nice certificate, and mail it to the address you enter. Yes, for FREE! This certificate can either be mailed to your favorite Elmer, or you can mail it to yourself so you can present it to them personally. Feel free to order an Elmer certificate, and present it to your Elmer at an upcoming SCARS meeting. Talk with one of the officers before the meeting to get your place on the agenda. What a great way to recognize these people for their extra efforts.

"Finally, we've got a place to list YOUR favorite Elmer in our SCARS Elmer Hall-of-Fame. This is the place to memorialize your Elmer, whether they are SCARS members, Silent Keys, or not. I've already listed a few Elmers on the list from my own travels through the hobby. We'd love to list the people that help us all succeed.

"So, please help make this page useful, visit the SCARS Elmer page at: <http://w5nor.org/elmers> and be listed as an Elmer, and list your favorite Elmers." ■

Ongoing License Plate Project for the Club Room:

By Russ Fitzgerald / N8FZ

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

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

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

The Fist - A Tale of Ham Horror, Part 2

By Gregg Mulder / WB8LZG



Laughter broke out on the other end of the landline. I knew it! He's never gonna believe.... "hey Phil, quit laughing and tune to 7.065 and hear for yourself". "yeah, yeah, so really how's that bug? She plays perty good does she?" "No, really Phil, I ain't kiddin. Tune down on 40 n see". "Alright, I'll meet you on 40." Click.

I heard a few dits from him on 7.065 and started right in on CQ. Sure enough, as soon as I get through my call, my hand starts sending away. I couldn't stop. I tried to pull away but couldn't. After a few minutes of listening, I could hear Phil trying to break in between letters. "Rrrrring" I grabbed the landline with my free hand. "you done?" "It's got my hand man!" I yelled into the phone as I dropped it on the shack desk. I reached over and hit the switch. My hand came back off the key. "I'm not kidding Phil. I get done with my call, and the damn thing grabs me and keeps on going. Weirdest damn thing I ever seen. No Kidding." "really? ...you ain't Bsn me now." "Not joshin ya man! This thing is just plain strange!" "Well, you know what else is strange?" Phil said. "What, your sending?" he paused for a moment, "sounds to me like old Japanese Morse." "Really?" "Not sure, but let me make a call, and I'll get a Jap friend of mine to get his take on it." "Sooner the better man, this is bugging me now OM!" "Buggin me, Ha, good one!" "Call you back." Click.

So I get a landline from Phil in an hour, all excited. "I found an old guy named Shin in the old club," he says "He's Japanese and can do Jap Morse. He's free tomorrow after 11 AM and will come by with me to take a look" "You still getting grabbed?" "Yeah, and I'm afraid to mess with it." "Don't worry; I'll see you in the morning." "Look for you then." As I hung up the phone, I glanced over at the bug causing all the commotion. It was indeed beautiful, and again I was drawn towards the bug. I stood above the operating desk admiring the intricate workmanship. I reached out to pick it up and stopped. An eerie feeling came over me. No, I'll wait till tomorrow I thought to myself. I opened the fridge, grabbed a Miller, n turned out the light, all in one fluid motion, and headed up the stairs to try to get some rest. "Whew! What a day!" I mumbled to myself as I topped the last step.

I awoke the next morning in a cold sweat. I'd been dreaming about the old man who had sold me the bug. I dreamed he had gone to the local Doctors office after hours, broken into the place, and then used the physician's operating equipment to amputate his hand. The "look" of a madman was in his eyes. He sliced into the hand at the wrist and

in a few moments of extreme pain, the lifeless hand hit the floor with a slopping sound. With the remaining good limb, wrapping the stump at the end of his wrist, one-handed, with gauze as the blood gushed a trail out the door and down the street. All the while screaming with elation, "I'm free! I'm feerrrrreeeee!"

"Whoa man! Crazy dream!" A quick shower, and a bowl of Cheerios, and I was feeling a bit better. The guys would be coming soon and then we'd figure this thing out.

So now I could hardly wait. I paced around nervously for a while and made a pot of coffee. I had the bug all set to go on the operating desk. "Hey Old Man!" Phil hollered as he walked up to the house "Hey good morning guys" I said as they peeked in the back door. I greeted Shin warmly and thanked him for coming. Then pouring them both a Cup o Joe, I lead them down to the shack. Shin was obviously of a generation or two preceding ours, and his face showed the wear of the years, yet he had a gentle smile and an air of honesty about him. Phil had already explained to him what was happening and somehow did not have any difficulty persuading Shin to check out the weird story. Shin spotted the bug right away, and he gravitated towards the key, paused and carefully picked it up to examine the workmanship. He said nothing for several minutes as he turned the key in every axis to investigate possible clues to its origin. Phil finally broke the silence. "SO spill it, Shin, what's the scoop with this key?" "Well," he began slowly "This is very fine machining, I haven't seen anything like it in maybe 50,60 years." he sighed, "see the fine lines on the posts, they haven't done them like that since before WWII. I thought I've seen just about every key made but never saw one with this fine workmanship." On the bottom was the maker's name in Japanese, along with some inscription about the maker. "Have you tried to contact the family yet?" I shook my head. "You may have a one of a kind here," he said with some authority. "I've heard of a ham before the war that made special order bugs for princes, sultans, emperors and high dignitaries, but I had always thought they were folklore or in museums, I'd never actually seen one before now." "Show me what happens when you try to use the bug," he said, setting it gently down on the operating desk.

I sat down at the operating desk cautiously. I plugged the bug in and turned on the rig, tuned around for a clear spot and sent a quick string of V's. "Works great until I get to my call." "continue," Shin said. I started a CQ and de my call. When I get to the last letter, instead of the AR, the dang the keeps right on going. I wanted to let go, but it had a hold on my hand, and the key just kept right on pounding away. "Are you in pain?" he asked. "No, but I can't stop unless I cut the power." "Keep going," he said in amazement "It's old Japanese Morse." My hand kept on pounding away, and Shin sat

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quietly deciphering what was being sent. Phil just stood there Wide Eyed, trying to take in what was happening and make some sense of it all. He had previously thought it was all a stupid joke that I was playing on him, but now realized it wasn't a joke and not funny at all.

I was into about the second minute of sending when the look on Shin's face changed dramatically. He turned white as a sheet and blurted out "Stop! Stop! Stop sending!" I tried to obey, but the key had ahold of me more tightly than ever and just kept sending away! "Noooo!" Shin cried out, as I reached across the desk and pulled the plug. As the pilot lamps dimmed so did the constriction on my hand. For a moment, relief.

Shin looked at the key, and then at me. "I hope we stopped you in time" There was dead silence. Shin's face still white as a ghost, he had the look of terror in his eyes. And now so did I. "What? What did I send?" I pleaded.

"You were sending in old Japanese Kumo code. I have not heard it used for many years". It's what you sent that has me afraid for you George." He regained some of his composure. "You sent, the name Tsune Ishibashi, the officer who had the key. He also told of his son who would inherit the key from the emperor's nephew." He then turned very serious. "Officer Ishibashi would invoke a curse not in use since centuries ago by mystic sects of Tong warriors who were charged with the protection of all of the emperor's sacred possessions. They used both the living and the dead to accomplish this mission. They were pledged to the death in charge of their duty and were not above using the dark arts of sorcery. Phil and I were still stunned. "So how do we get rid of the curse?" I said in earnest. "We have to find the owner and return the key" Shin said. "this Ishibashi's son must be somewhere." With renewed conviction, Shin said "I know of a man who may be of some help. If there is a record of this man's son, he will find out.

"So in the meantime what do I do about the curse?" I pleaded. "Do NOT try to use the key again until we find the owner," Shin said. "No matter what happens, If you want to keep your hand, do not use the key. The more you use the key, the more that this curse will creep into your hand and eventually consume your entire being!"

I was really afraid now. All this curse stuff had me very worried, and already I felt like my "fist" wasn't mine.

"Why don't you come to my place for dinner tonight." Phil said, "we can watch some TV and have a couple of beers and try to forget about this for a while." "Good idea, I could use a little R n R after the dreams I had last night," I said trying to calm myself down a bit. "What about you Shin?" "No. I'm going to go down to the park, There's a man I know of there who may be able to help us." "I just hope I can find him. I've not talked with him for some time.....he is old and may not remember."

"I thanked Shin for coming and said goodbye to him wondering what he would find out, and wondering just how long I'd have to wait to be rid of this curse." "Come on, we'll go get us a brew er two, and you'll feel better," Phil said to reassure me. We headed out the

door and jumped in the pickup. In a few minutes, we were on Phil's patio, cracking into a cold 807.

After about four beers I began to relax a little, and he turned on the tube to see what the scores were for the day. "Well, that key is the damndest thing I ever saw. If I hadn't seen it with my own eyes, I wouldn't have believed a word." Phil mused. "I'm glad it's you and not me," he said with a chuckle, trying to relieve the tension. "But don't fret, ol Shin will figure this out. I just know it." As he took his last swallow and popped another cool one." He knows all about this Japanese hocus pocus stuff, n he'll fix you up for sure."

One more beer and I was ready to turn in for the night. "Thanks for the suds OM." I said gratefully "but I got to be getting home now." We said our goodbyes and he said: "I call you in the morning, n see how you're doing, OK?" "OK, thanks."

On the way home all I could think of was the key. I looked at my hand..... I flexed my fist.....looked again. Seems OK to me I thought, trying to reassure myself. I rounded the final turn and up the driveway and went inside. I walked right past the cellar door that led to the shack, and into the den and onto the Chesterfield to watch some TV. The beer was doing its job, and I felt sleepy.

As I crawled off to bed, I felt a bit more at ease. Surely Shin would be able to help I consoled myself as I soon fell into slumber..... and dreamed.....

I dreamed I had succumbed to the keys "power" over me. I was drawn down to the shack and the key called to me. I slowly felt the paddles and their smooth surface. The feeling was electric, tantalizing, and I started sending, and sending, and not understanding a word or even a letter! I tried to remove my hand. No good. It had me. Soon my arm began to tire, yet I couldn't stop sending. I pulled and pulled, my hand in severe pain! Still sending I reached over and grabbed the cord and yanked the plug with my left hand fully expecting to be out of the noose, and still I kept sending! Now my entire arm was in pain. I cried out "HELP" at the top of my lungs knowing full well that no one could hear me. I yelled and jumped around in the chair like a man with pants on fire! Then I heard someone upstairs enter the back door. Thank heaven's I thought. "Phil is that you?" I cried out. Still sending in agony, I gasped for breath when I spun my head around to see the old man who sold me the key! His one hand gone at the wrist, still wrapped in bloody gauze dressing and in the other a scalpel. His eyes were pure evil, and in a voice that came from the damned, "I'm here to set you free." Still sending I started swinging at him with my free arm, trying to keep him away. All the while my sending hand imprisoned by the key! "Get away you old geezer! Leave me alone!" He stayed just out of reach as he wielded the scalpel back and forth. "You'll soon beg me to free you, the longer you wait, the more of the arm will have to come off" I felt the rest of my body going into cramps of pain as my hand continued to send. Before I knew it, I was helpless just sending, and sending. Like a petrified zombie, I was the keys prisoner! The old man slowly approached me and lifted my sending arm from under with his bloody stump, still swinging the scalpel around. "Now I'll have to take it off at the elbow" he sneered. He held my forearm down with the stump while sizing up the spot he

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was about to amputate. I was helpless and could only gaze in terror at what was about to happen. "please help me" I managed to mumble. "Yes ... I'm going to free you now.... freeeee" He plunged the scalpel into the flesh just above the joint in the elbow! I screamed in pain "Nooooooo!" He continued to sever all of the tendons and started to saw through the spot between the bones. Tears were clouding my vision as I begged for mercy. He dug in deeper, and I screamed for all I was worth! In one final push, he was through. The arm and hand fell limp, and the key fell silent.

RRRrrrrgggg! I jumped up in bed to the sound of the phone. Sweating like I'd just run a marathon. I looked at my hand and

reached over to pick up the phone. "Hallo" "Hey," Phil, I'zat you?" "Yeah Man, Get up! you ready fer the swap?" "Oh man, I don't know if I want to go to the swap, yer not gonna believe what just happened to me" "Get ready! I'll be there in 5 minutes. We have been planning this for a long time., you're not gonna wimp out on me!" "Ok, But promise me you won't let me buy any Japanese bugs or keys today" "What are you talking about?" I looked at my sending hand and made it into a FIST defiantly. "you're not gonna believe this" "Belive What?" "Tell you on the way to the swap." ■

Less Power to You

By Gil Gruson F4WBY/AK4YH



On September 5, 1977 NASA launched the Voyager 1 space probe from Cape Canaveral to study the outer Solar System. The little guy just kept on going into interstellar space, still transmitting out of its twelve foot dish antenna, blissfully unaware that QRP doesn't work. Well, Voyager cheated a little, I do too sometimes, by using twenty three Watts of power, still

almost 538 million miles per Watt. Imagine waiting more than thirty seven and a half hour to get a reply to your CQ! Sure, Earth has big ears, but let's not tarnish NASA's golden record; pun intended.

Back down to Earth, are we? Some amateurs use levels of power that if not your head, will make your electricity meter spin. How much power do we need? The FCC says as little as possible to make a decent contact. Some play with micro-Watts and get through; millions of miles per Watt. Transceiver manufacturers seem to have settled on one hundred Watts, a number most likely based on marketing and economical factors rather than real life applications. One hundred is a nice round number. I am a big fan of QRP, or rather, ultra-portable radios, usually five to ten Watts. My friend Ray and I used to experiment with reduced power down to one hundred milliwatts over more than eight hundred miles; CW of course. Why signal with a flashlight when you can use a laser pointer? I was making regular contacts to Eastern Europe from Florida using from one to five Watts to about six thousand miles. Power is expensive, in dollars, Amperes and kilograms.

The military figured it out long ago. They deal with life-and-death communications from the field, portable man-pack operations in HF, which is still in use, just not the only option anymore. My RT-320 outputs about twenty five Watts, as do most military portable transceivers.

Power does help, nobody can deny it. There is however the law of diminishing returns. When the ionosphere isn't cooperating no amount of power will get through. When it does, you don't need much to be heard. A good resonant antenna and some knowledge will go a long way. I bet inadequate antennas radiating only a few Watts rather than the hundred coming out of the transceiver are the norm rather than the exception.

I suggest any new Hams to save their money, study antenna designs and spend an afternoon at the hardware store. Amplifiers are mostly used for contests where the goal is not to make contact but crush the competition. Better chase losses, hunt for noise sources, use better aerals and more efficient modes like CW or PSK-31.

I believe the magic numbers are five Watts CW and twenty five Watts SSB. You can go on a nice DXpedition for the price of an amplifier. If someone doesn't believe how well they hear your five Watts, tell them the story of the little probe that could. ■

Michigan Distracted Driving Bill Introduced

By Larry Camp/WB8R



Recently, we learned from a Michigan ARRL member that a Distracted Driving bill had been introduced into the Michigan House of Representatives. This bill did not exempt amateur radio operators from this proposed law, with a result that operation of mobile amateur radio equipment may become illegal in Michigan.

I called on our State Government Liaison Ed Hude, WA8QJE to investigate and find a way to get this fixed before it becomes law. This is a very high priority item.

Today, I received the note below from WA8QJE:

Greetings Larry and the Michigan ARRL Membership,

I would like to inform you that I am in receipt of your email, expressing concerns from members of the Troy, Michigan area, regarding proposed State Legislation involving Distracted Driving and wireless device use. The proposed legislation is now identified as House Bill 5867, and was introduced by Representative Martin Howrylak, District 041, of the Michigan House of Representatives. Thank you for bringing this to my attention.

As of today, I am happy to report to you that I contacted Representative Howrylak's Office to discuss this matter. In speaking with a Legislative Aide to Representative Howrylak, I found that she was very open to a dialogue regarding the proposed legislation. As a matter of fact she thanked me on behalf of Representative Howrylak for the efforts put forth by the amateur radio operators in the Troy area as well as State wide in assisting with severe weather watches and emergency communications.

In my discussion with her about this legislation, I discovered our definition of wireless communications and their definition of wireless communications which would not only effect amateur radio mobile communications, but that of wrecker vehicles, power company vehicles and more are not the same.

Tentatively we are looking forward to a meeting on Thursday, October 13th, time yet to be determined to address our concerns and to work together to amend this piece of legislation and clarify its original intent. I would like to request your assistance for this meeting and will contact you as soon as a time is confirmed.

I would like to ask of the membership that once this issue is resolved that consideration be given to support legislation as it relates to distracted driving by use of cellphones, smartphones, notebooks and iPads and similar devices. There has been needless loss of life and injuries as a result of the use of these devices and driving of motor vehicles by all age groups.

Regards,

Ed Hude, WA8QJE
State Government Liaison for Michigan
American Radio Relay League

As you can see, Ed was able to quickly open a dialog and it appears that we are on the way towards a solution on a state wide level. We understand that there is an ordinance in the City of Troy that may be problematic as well and we are gathering information on that situation as well.

HB5867 Distracted Driving Bill Update

On October 20, Ed Hude, WA8QJE (MI State Government Liaison) and I had the opportunity to set down with Representative Martin Howrylak from the MI 41st District to discuss his Distracted Driving bill (HB 5867) that was recently introduced in the Michigan House of Representatives.

We were fortunate to be able to spend over an hour in conversation with Rep. Howrylak and his Legislative Assistant Amanda Gill. Our suggestions for changes to the bill to exempt amateur radio from this legislative were readily accepted. The final language has not yet been determined, but a proposed rewrite shows great promise.

While it is likely that this bill will not be moved forward before the current legislative term ends, if Rep. Howrylak is reelected, the bill will be introduced in the next legislative session. We will continue to work with Rep. Howrylak and his staff to produce a bill that will not inadvertently cause harm to amateur radio operators.

For now we believe that this situation is under control, however we do urge that all radio amateurs exercise caution while operating from your vehicle. ■

73,

Larry, WB8R

CMARC Board Meeting

October 14, 2016

❖ CALL TO ORDER:

- President Tom Rocheleau/WA8WPI called the meeting to order at 6:15 with the following Board members in attendance: Vice-President Russ Fitzgerald/N8FZ, Secretary Jane Hosford/KC8FSK, Treasurer John Doornhaag/KD8NNQ, and Director Chris Ranes/NS8Q. Director Ted Sadilek/WA8MFQ and Under 22 Director Sam Fitzgerald/N8FPR were excused. Also present was Clyde Tompkins/K8CPT.

❖ SILENT KEYS:

- Jim Harvey/KA8DDQ passed away September 21, 2016.
- Pamela Ingraham, the wife of John Ingraham/NG8L, passed away October 4, 2016.
- Ruth Stortz, the wife of Richard Stortz/K8JNZ, passed away October 6, 2016.

❖ CMARC DUES:

- There was a discussion about raising the CMARC dues from \$15.00 to \$20.00.
- John/KD8NNQ made a motion to increase the CMARC dues to \$20.00 January 1, 2017.
- Russ/N8FZ seconded the motion, and all approved it.

❖ NOVEMBER MEETING:

- Ted Sadilek/WA8MFQ is a docent at Potter Park Zoo, and will bring animals for us to see.
- Possibly have Tim Jurno/AC8NI from SATERN (Salvation Army Team Emergency Network) come and talk to us in January 2017.
- At the November meeting we will be taking nominations for the 2017 Board. Four people are up for renomination: Tom Rocheleau/WA8WPI, Jane Hosford/KC8FSK, Chris Ranes/NS8Q and Ted Sadilek/WA8MFQ. The Under 22 position, Sam Fitzgerald/N8FPR, is only a one year term, so Sam/N8FPR would

have to be re-elected to stay on as the Under 22 director. Jane Hosford/KC8FSK has decided not to run for re-election.

- You are allowed to nominate yourself if you wish.
- To make a nomination or to be on the Board, you must be a full CMARC member.

❖ BOARD MEETINGS:

- The Board has decided to hold their meetings the Saturday before the regular CMARC meeting at RAD'S/Denny's at 5:30. That way we have more time to discuss things without running into the time that the regular club meeting starts. So that means that the next Board meeting will be on Saturday, November 5th at 5:30 at RAD'S/Denny's. Anyone is welcome to attend the Board meetings.

❖ MISCELLANEOUS:

- Tonight Russ/N8FZ is collecting the money from everyone who ordered a shirt. If you can't pay this evening, you may pay at the November meeting.
- If you didn't order a shirt at this time, but later decide you would like one, the website is hamthreads.com. As long as you order an item with the Club logo, you will get a 20% discount.
- Also tonight there will be a silent auction for items in the Club room that are no longer used/needed. The money is due by the November meeting if you can't pay tonight.

❖ MEETING ADJOURNMENT:

- Motion to adjourn made by Tom/WA8WPI seconded by John/KD8NNQ and approved.
- Meeting adjourned at 7:06 pm.

Respectfully submitted,
Jane Hosford/KC8FSK-Secretary

General CMARC Meeting

October 14, 2016

❖ CALL TO ORDER:

- President Tom Rocheleau/WA8WPI brought the meeting to order at 7:10 pm.
- Please sign in on the sign in sheets that are going around, there is one for members and one for visitors.
- The meeting began with the Pledge of Allegiance. President Tom Rocheleau/WA8WPI held the flag.
- A moment of silence for our silent keys

❖ ATTENDANCE:

- There 33 people in attendance.
- Our visitors included Steve Cooper/N8NTU, Martin Groom, Justin LeBlanc/KE8FEZ, Jeffery Tompkins and Abigail Beuchert.

❖ NEW LICENSES, UPGRADES, AND VANITY CALLS: None

❖ SILENT KEYS:

- Jim Harvey/KA8DDQ passed away September 21, 2016.
- Pamela Ingraham, the wife of John Ingraham/NG8L, passed away October 4, 2016.
- Ruth Stortz, the wife of Richard Stortz/K8JNZ, passed away October 6, 2016.

❖ CARDS & FLOWERS REPORT:

- A card was sent to the family of Jim Harvey/KA8DDQ, and flowers were sent to the funeral home.
- A card was sent to the family of Pamela Ingraham, and a \$40.00 donation was sent to the American Cancer Society in her memory.
- A card was sent to the family of Ruth Stortz, and a \$40.00 donation was sent to the Alzheimer's Association in her memory.

❖ PLEASE PAY YOUR DUES:

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

❖ OLD BUSINESS:

- Jerry/KD8GLN made a motion to accept the September Secretary's report as printed in the October Scope, Leota/KD8SQD seconded the motion and was approved by all.
- Bob/K8ZAP made a motion to accept the September Treasurer's report as printed in the October Scope, Kenny/K8NNY seconded the motion and was approved by all.

❖ INTERESTING DX:

- Justin LeBlanc/KE8FEZ talked to the USS Detroit

❖ CLUB DIRECTORY:

- Need to check with Dan/KD8YDE.

❖ WEDNESDAY NIGHT INFORMATION NET:

- Clyde/K8CPT is the Net Control and for those interested would like to run the net from the Club room @8:30. For those interested, please contact Clyde/K8CPT.

❖ NEW BUSINESS (CMARC DUES):

- There was a discussion about raising the CMARC dues from \$15.00 to \$20.00.
- John/KD8NNQ made a motion to increase the CMARC dues to \$20.00 January 1, 2017.
- Russ/N8FZ seconded the motion, and all approved it.
- If you pay your 2017 Club dues by December 31st, 2016, you will still be paying \$15.00.

❖ NEW BUSINESS (BOARD MEETINGS):

- The Board has decided to hold their meetings the Saturday before the regular CMARC meeting at RAD'S/ Denny's at 5:30. That way we have more time to discuss things without running into the time that the regular club meeting starts. So that means that the next Board meeting will be on Saturday, November 5th at 5:30 at RAD'S/Denny's. Anyone is welcome to attend the Board meetings.

❖ ENTRANCE TO CLUB MEETINGS:

- For the October meeting, we will no longer be able to use the front door for entrance. Please use the back door from now on – the door that opens into the room where our meetings are held.

❖ CLUB SHIRTS:

- Russ/N8FZ is collecting money for ordered shirts tonight. If can't pay this evening, they are due at the November meeting. If you did not order a shirt at this time, the website is hamthreads.com, and you can order anytime. As long as you have the Club logo put on what you order, you will receive the 20% discount.

❖ CANDY BARS:

- Bob/KB8DQQ is selling candy bars for a \$1.00 each. The money is then donated to LCDRA (Lansing Civil Defense Repeater Association).

❖ 50/50:

- There was no 50/50 tonight.

General CMARC Meeting

August 12, 2016

❖ NOVEMBER MEETING:

- Ted Sadilek/WA8MFQ is a docent at Potter Park Zoo, and he will bring animals for us to see.
- Also at the November meeting, we will be taking nominations for the 2017 Board. Four people are up for renomination: Tom Rocheleau/WA8WPI, Jane Hosford/KC8FSK, Chris Ranes/NS8Q and Ted Sadilek/WA8MFQ. The Under 22 position, Sam Fitzgerald/N8FPR, is only a one year term, so Sam/N8FPR would have to be re-elected to stay on as the Under 22 director. Jane Hosford/KC8FSK has decided not to be re-elected.

❖ MISCELLANEOUS:

- Everyone who volunteered to work the event in DeWitt tomorrow, see Russ/N8FZ for last minute instructions.

❖ BREAK:

- *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.*

❖ TONIGHT'S PROGRAM:

- Tonight there will be a silent auction for items in the Club room that are no longer used/needed. The money is due by the November meeting if you can't pay tonight.

❖ MEETING ADJOURNMENT:

- Made by Bob/K8ZAP, seconded by John/KD6KCX and approved.
- With all business concluded, the meeting was adjourned at 8:45 pm.

Respectfully submitted,

Jane Hosford/KC8FSK-Secretary

CMARC Board Elections

Have you thought about the 2017 Board of Directors or Appointees?
Begin thinking about running or who you might like to nominate.
Nominations will close at the November Meeting.

The DX Corner

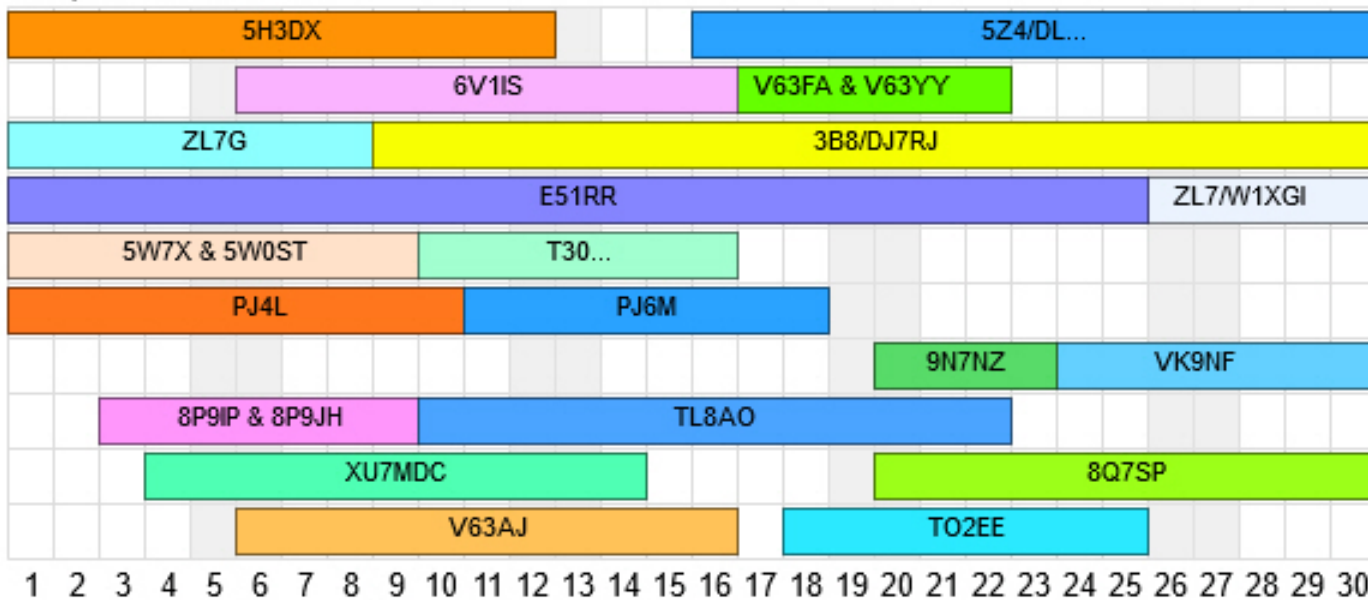
By Col McGowan, MM0NDX

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.

DX WORLD.net FEATURED DXPEDITIONS TIMELINE

Last update: November 4, 2016



Edited by MM0NDX

NOVEMBER

© IK8LOV Max Laconca

Current & Upcoming DXpeditions

8Q7SP - Dhiffushi Island - Maldives DX Oceania

- Team Members are: SP6EQZ (Team Leader), SP2FAX, SP3CYY, SP3FZN, SP6FGY, SP6JIU, and SP9FOW.
- The team will be active from November 20th to December 3rd.
- They are planning all HF bands and modes
- They will have many radio gear with us including 5 transceivers, beam antennas, vertical antennas, dedicated RX antennas for low bands etc.
- QSL via ClubLog OQRS. LOTW within 6 months.



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.

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.

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

If you have something to sell or if you are looking for something specific to buy, please send your requests to cmarscope@gmail.com. There is no charge to list a classified ad in our newsletter.

CMARC Puzzle Page

Samurai Sudoku

Here is another Samari Sudoku puzzle for this month. I hope you enjoyed working on last month's puzzle. I would like to hear some feedback from our readers if you would like to continue to see a puzzle in future issues.

One piece of advice when trying to solve this type of Sudoku. You can not solve it by trying to solve each of the five 3x3 grids individually, but by working all five grids together.

Samurai Sudoku puzzles consist of five overlapping grids. The standard sudoku rules apply to each 9x9 grid. Place digits from 1 to 9 in each empty cell. Every row, every column, and every 3x3 box should contain one of each digit. There is only one solution to the puzzle and all you need to use in pure Logic. Guesses are not required.

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

			1	4	5												
			7												9		
												5	2	1			

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

SOLUTION ON PAGE 16

Greater Lansing Nets

The **"Central Michigan Slow Scan TV Net"** meets every Sunday evening from 7:00- 8:30pm on the 145.39 repeater (PL 100 Hz), with Net Coordinator Carl Canfield/K8YHH. EVERYONE is welcome to join in and have fun learning and using this interesting and useful mode of communication. Other digital modes will be explored from time to time. For more information, call Carl at: (517) 755 6627.

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

The **"Quarter Century Wireless Association Net"** also meets every Tuesday night but at 8pm and on the 146.70 repeater (PL 107.2 Hz), with Net Coordinator Don Tillitson/WB8NUS.

The **"Mid-Michigan Information & Trader's Net"** meets every Wednesday evening at 7:00pm on the 145.39 repeater (PL 100 Hz), with Net Coordinator Clyde Tompkins/K8CPT.

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

ALL are welcome on these nets, so be sure to check in to show your support. And as with all Nets, 3rd party check-ins are welcome, but must have Control Operator present at check-in time.

[illegible]

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
Ted Sadilek, WA8MFQ
(517) 881-6093
tdsadilek@sbcglobal.net

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, KC8OWH

QSL/Awards Manager
Don DeFeyer, 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 Oberq, KB8SXX

Director
Jan Bradfield, KC8BFK
(517) 202-1779

Director
Don McLain
(386) 916-7673

Director
Michael Boensch, W8MKB

Membership Chair
Michael Boensch, W8MKB

Repeater Trustee
Dennis Boone, KB8Z0Z

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

**LCDRA Call:
W8BCI**

The Scope is a monthly joint publication of The Central Michigan Amateur Radio Club and the Lansing Civil Defense Repeater Association. Please send all articles, classified ads, or other Information to the editor, Chris Ranes, N58Q, at cmarscope@gmail.com. **The deadline for each issue is midnight on the 20th of the preceding month.**



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

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