

MARC JULY 2026 NEWSLETTER



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Resident Agent	Dennis Klipa, N8ERF	(989) 948-5427

LIFE MEMBERS

Lee Hodges KC8ITI, Linda Hodges KC8MUD, Larry Macklin N8CGP, Dennis Klipa N8ERF, John Wolters W8QN, Will Halphen K8VFO

MARC Web Page – www.w8kea.org

Midland W8KEA Repeater — 147.000 MHz +, 103.5 Hz

NEXT CLUB MEETING: Salvation Army Building - 330 S Waldo Ave at 7:30 pm on August 6th, 2026.

Spring! Warmer temperatures and longer days bring new opportunities to enjoy the hobby. It's a great season to get antennas back up, take on outdoor projects, and refresh your setup after winter. Whether you're experimenting with portable operations, joining local nets, or getting ready for field events, there's always something exciting happening on the airwaves as everything comes back to life.



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View From the Top of the Tower

The last weekend of June, the 27th and 28th, was our first Field Day since I can't remember when. Ric, KD0RMK, had been leading the preparation and planning efforts for Field Day but has been unwell for a while. Art, K0ACP, and Mitchell, W8DOD, have stepped up to continue the planning and preparation. I have forwarded a couple of updates from Art to the distribution list, so I won't go into details here.



The MARC Swap, organized by Keith, KB8SOE, went well. Trunk sales were down, presumably because of the threat of rain. I don't have the data on ticket and table sales yet, so I don't know what the financial outcome will be. Sales of club equipment were down this year, while sales of school club equipment were pretty good. We will have a full account of the swap at the August MARC meeting.

Doug, N8NTN, provided us with the PA system for announcements again this year. Thanks, Doug! Linda, KC8ITI, stepped up at the last minute to make sure the food concession situation was handled, and thanks to Dorie French for coming in to help with the food. Setup happened at 6:00 p.m. the night before the swap, with several hams in attendance. It was fun to talk with old friends and make a few new ones.

The VE session went very well. Make sure to congratulate Kevin, W8QOI, on his upgrade to Amateur Extra! See the VE Report later in the newsletter for more information.

At Midland High, we had three antenna parties to correct a few antenna issues. All issues have been resolved. See the School Club Report for more information.

I hope you all have a great summer enjoying the beautiful Michigan weather. I look forward to seeing you at the Saturday morning breakfasts at Bob Evans at 8:00 a.m., on the Thursday night net at 7:30 p.m., and on the Sunday night 10-meter net on 28.380 MHz at 7:00 p.m.

Best Regards,
Dennis, N8ERF
MARC President

VE Report: June 20 Swap Session

The VE session at the MARC Swap resulted in three people earning their Technician licenses and one person, W8QOI, upgrading to Amateur Extra. Congratulations, Kevin!

The session was conducted by Fred, KE8QCO, in his second training session. Fred will be leading the newly formed Saginaw VE Team. Other VEs at the session were Jack, K8GTG; Debby, KB8J; Mike, KD8MMH; Art, K0ACP; Tom, N8EUI; and Dennis, N8ERF.

I would like to invite any Extra Class licensees in the area to consider becoming Volunteer Examiners. The number of volunteers on the Midland team has diminished over time. Some of

the VEs who help with our sessions are members of the Saginaw club, and we greatly appreciate their support. We will continue to share VEs between the two groups.

It is a strictly volunteer arrangement. If you are available and willing to help at a particular session, great! If you cannot make it to a given session, no problem.

If you are interested in becoming a VE, you can find more information on the ARRL website or send me a note.

Dennis, N8ERF

School Club Report

Of course, school is out, but there is a lot of work to do to get ready for school to start up again in just two more months. Near the end of the last school year, we identified two problems with our antenna system at the high school. The 2M/440 vertical had a high SWR across both bands. Also, the controller for the SteppIR DB18E antenna was giving us an error indicating an open wire leading from the controller to one of the stepper motors.

First Antenna Party – June 9

We held the first antenna party on June 9 with Lee, KC8ITI; Bryan, K8BV; Mitchell, W8DOD; and me. The plan was to take some measurements at the junction box at the base of the tower to see if we could further isolate the problems. We did not plan to tilt over the tower during this session.

Using an antenna analyzer, we confirmed that the coax connecting the VHF/UHF radio to the vertical was in good shape from the station down to the lightning arrestor in the junction box near the base of the tower. We also confirmed that the lightning arrestor was not shorted. A test of the coax leading up the tower indicated that the problem was at the top of the tower, but it did not tell us exactly what the problem was.

The SteppIR controller problem was a bit more complicated. The controller in the shack is about 450 feet away from the antenna electrically. This requires a remote controller board in the junction box near the base of the tower. The controller in the shack is connected to the remote controller through a Cat 5 Ethernet cable. The first thing we did was confirm that the Cat 5 cable was in good shape, and the tests showed that it was.

Between the remote controller and the SteppIR antenna is a 16-wire cable. At the antenna, the cable is terminated in a proprietary connector that is inserted into a junction box at the top of the tower. At the bottom of the tower, the cable is connected to the remote controller board using a special DB25 splice connector with screw-clamp connections for each wire.

When we inspected the connector, we found serious corrosion on several of the screw-clamp connections. We cleaned up the corrosion as best we could, but the problem was not resolved.

Resistance tests on each pair of motor windings indicated that none of the motor windings were connected.

We surmised that, in addition to the corrosion issue, the connector at the top junction box had become disconnected. We decided to purchase a new DB25 splice connector instead of trying to repair the corroded connector and made plans for a second antenna party.

Second Antenna Party – June 15

The second antenna party took place on June 15. Lee, Bryan, Grant Vanderpelt, and I were present. Grant is an Essexville student with whom I have been exploring electronics.

Immediately, we encountered an additional problem. To tilt the tower over and work on the antenna while standing on the ground, we use a Tilt Plate R, which allows the SteppIR DB18E to remain parallel to the ground as the tower is tilted over.

For the Tilt Plate to operate correctly, the antenna must be pointed at a bearing of 270 degrees. However, the antenna is normally kept at a bearing of 90 degrees when not in use because of the way the wind comes off the roof of the building.

The first thing we needed to do was rotate the beam 180 degrees. When we turned on the rotor controller, we received an error indicating that the counter was out of range.

The rotor has a magnetic reed switch that counts the number of times the motor rotates one full turn. The controller converts those counts into a direction based on calibration. The controller had somehow registered too many counts, and in this condition, it would not rotate the antenna.

After looking at the manual, we realized that all we needed to do was perform a calibration, which was very easy. After the calibration was completed, the controller readily turned the beam to the necessary heading.

Tilting over the tower went smoothly.

[Photo (left): The antenna being hoisted into the air for the first time in 2013, before the coax and other antennas were added.]



The problem with the coax leading to the dual-band vertical was immediately obvious. There is a coax connector plate near the top of the tower with multiple N-type chassis barrel connectors. The feedline runs up the tower to this plate, and then a short run of coax leads from the plate to the antenna.

The shorter section of coax had been pulled out of the connector at the plate. We do not know exactly how it became snagged and pulled out, but we will devise a cage to keep the coax lines free.

John, W8QN, who had a spare connector and the appropriate crimping tool, came out to the site and replaced the connector for us. After reconnecting and taping up the connector, the antenna was operating well again.

The next item was the incorrect orientation of the DB18E. It was 180 degrees off as the result of a mistake I made the last time we had to do some work on the antenna.

We installed a clamp below the Tilt Plate to keep it from slipping down the mast, then loosened the U-bolts holding the Tilt Plate and antenna to the mast. The tower was raised just enough to allow the 2-meter beam to rotate. The mast was then slowly rotated 180 degrees while holding the SteppIR stationary.

The tower was lowered back down, the U-bolts were tightened, and the clamp was removed. After a minor recalibration of the rotor controller, everything was back to normal.

We then turned our attention back to the SteppIR controller problem. When we opened the SteppIR junction box at the top of the tower, we noticed that the connector containing the motor control wires had pulled out of its receptacle for some reason.

Resistance measurements on the motors from the receptacle showed that the motor wires had the expected connectivity. Plugging the connector back in and measuring the resistance at the junction box at ground level also showed good connectivity. However, the controller still indicated a problem with the motor control wires.

We still need to replace the DB25 splice connector and carry out a more complete troubleshooting regimen, including measuring resistances and voltages.

The one thing we cannot eliminate at this point is the possibility of a problem with the remote controller board. If we eliminate everything else, we may need to send the remote controller board to SteppIR for evaluation and repair.

Third Antenna Party

On June 23, Lee, KC8ITI, and I, N8ERF, went back to the tower for a third antenna party. There was little left to do, so we did not invite others to join us.

We replaced the DB25 splice connector with the new connector from SteppIR and then checked all of the resistance readings. Everything checked out.

I went back to the shack and turned on the antenna controller, but the error message was still there. On a hunch—don't ask me why I made this choice—I decided to try tuning the antenna anyway. When I pushed the button on the controller to change bands, the error message went away, the antenna tuned properly, and the antenna indicated a very good SWR. Lee reported being able to hear the SteppIR motors running!

Apparently, for some reason, the error message does not clear until an attempt is made to tune the antenna. Go figure.

Thanks to everyone who helped get us back on the air.

Dennis, N8ERF

City of Midland Proclaims Amateur Radio Week

In recognition of the contributions of Amateur Radio to the local community, the City of Midland issued a proclamation on June 8, 2026, stating:

“RESOLVED, we, the Mayor and City Council of the City of Midland, Michigan, do hereby proclaim June 20–27, 2026, as Amateur Radio Week and June 28, 2026, as Amateur Radio Day in the City of Midland, and recognize amateur radio operators for their dedication and skill in this crucial means of communication.”

The proclamation certificate is reprinted below for your appreciation. Accepting the certificate were Dennis Klipa, N8ERF, President of MARC, and Kanushi Desai, KE8RNA, Vice President of MARC. Also present for the presentation were Lee, KC8ITI; Ric, KD0RMK; and Kanushi's mom, Pranali.

Dennis, N8ERF





From the Midland County EC...

Ric Sauer KD0RMK

Why We Have Training

Breaking into a net: If a net is in progress and you have emergency traffic, you may need to “break” into the net. The most common method is to wait for a pause between transmissions and simply say “Break” followed by your call sign. When the net control station acknowledges you, say your call sign followed by “Emergency traffic.”

From the Introduction to Emergency Communication course book.

Don’t forget the message forms. When going to a disaster scene, remember to take along standard radiogram and ICS-213 message forms. The agency managing the disaster may not have a form of its own, and you will almost certainly be asked to send formal messages.

Don’t radiate your head. Some operators devise very clever, compact “go kits” consisting of a sturdy case containing all of their field station equipment. Setup is simply a matter of opening the case, plugging in a few items, and being ready to go. Unfortunately, some operators place a magnetic-mount antenna directly on top of the case. This is a dangerous practice because the operator may be too close to the radiated energy coming from the antenna. Take the time to move the antenna to a location where it will not endanger anyone.

Plain language is best, especially during an emergency. Q-signals and jargon are not understood by everyone. Some police departments have even dropped 10-codes in favor of plain language.

From various sources, including the Introduction to Emergency Communication course book and Cable News Network.

It may be a field station, but it still needs to be grounded. Lightning is just one potential hazard. At the scene of a disaster, there will likely be all manner of hastily assembled electrical and electronic equipment. The possibility of interference or electrical shock is very real.

Before you decide to deploy in bad weather, consider whether your equipment is prepared for the conditions. Electronic equipment almost always lists a temperature range in which it can operate and sometimes a humidity range as well. Make sure your equipment can withstand the heat, cold, and ambient humidity before exposing it to the elements. Also consider the stability and effectiveness of your antenna under such conditions.

Include a first aid kit in your go-bag. You don’t need to be ready to perform surgery, but you should at least be able to treat minor cuts and bug bites on the spot.

If the roads are icy, it really doesn’t matter what sort of vehicle you have. If the roads are slippery, the wisest decision you can make is not to deploy.

Pay attention to the briefings. You have your gear and are ready to go, but you may have to sit through a briefing from your ARES leader, another from the site manager, and yet another from the safety director. Pay attention. You don’t want to miss the fact that you won’t be using the

usual frequency, there are rabid animals in the area, or that the strangers wandering around the site are local government officials. During an emergency, things can change at the last minute, unlike routine events where things are planned weeks or months in advance.

Have fuses handy. Much of your equipment has one or more fuses. Check each item, make a list of the fuses you might need, and put together a small fuse kit. Be sure to replace any fuses you use.

The above list is only a small sample of the things to consider during an emergency. Recurring training and being prepared in advance are the best practices. Anyone interested in assisting by providing training sessions or practicing remote-site setup should contact Ric Sauer at KD0RMK@gmail.com.

220 MHz

I've had multiple inquiries about having a 1.25-meter net. It appears that several people have the ability to use this band with their existing equipment. Anyone willing to champion this project should contact Ric Sauer at KD0RMK@gmail.com for more information.

The plan would be to hold a weekly net. I would like to have a tentative plan in place before the next club meeting.

Field Day 2026 for the Midland Amateur Radio Club

By Art Peters, K0ACP / VE3ZCP

On June 27, 2026, the Midland Amateur Radio Club (aka Hams) proved that it could still host a Field Day activation. Preparation for this outing began last fall, when a group of Midland Hams decided it was time to see if we could still put on our own event. For the past 10 years or so, we've been part of the Saginaw Club's activation, and frankly, it had grown comfortable and too easy.

The first Field Day dates back to June 22, 1933, when a group of Hams decided to test their skills at setting up a portable station and practice for situations when amateurs might be called upon to provide emergency communications. The event was a success and has become an annual institution for Hams across America on the last weekend in June.

Realizing that a successful operation took preparation, teams were established and assignments were made. We had site selection, antenna, RF coordination, infrastructure, safety, operations, and, perhaps most importantly, food teams.

Our site was Edenville's Swanton Hall, where we used the new pavilion as our base of operations. Two weeks before the main event, a small group went to the site and practiced setting up various antennas and radios to get a feel for the location. Along the way, we had to work out some kinks in the plan and get the darn logging computers to talk to each other!

Setup on Saturday started a tad past 8:00 a.m. with the establishment of our canteen. I mean, who can operate without coffee? Antenna setup started shortly afterward, with our three main stations set up by the noon lunch break.

After a lunch of cold cuts, chips, and cookies, the team completed setting up our QRP (low-power) tent and was ready to go by the start time of 1800 Zulu/UTC, or 2:00 p.m. EDT (Eastern Daylight Time). There are always a few technical surprises, but in this case, the prior preparation paid off, and technical difficulties were minimal.

The main operation focused on phone (voice) and CW (Morse code) contacts, though the team took a break to send a piece of formal traffic, part of the ARRL (Amateur Radio Relay League) NTS (National Traffic System), to our local Section Manager. In this case, we used a facility called Winlink, which sends email over radio. The QRP tent focused on one of the newer digital modes of communication, FT8.



Following a dinner of pulled pork, beans, coleslaw, apple pie, and rhubarb crisp, the team settled in for an evening of operating. We started taking down and packing up around 9:30 that evening, and operations stopped at 10:00 p.m., as had been previously arranged.

As we packed up and reflected upon the day, there were many successes to celebrate and learning experiences to build upon for next year. All told, we made over 210 contacts, or Q's, from the East Coast to the West Coast. We proved that we could still put on a Field Day activation, folks had a good time, and, aside from being tired, all went home safe!

I want to offer my personal thanks to all those who helped make this happen. Your willingness and dedication of time and talent were greatly appreciated, and this wouldn't have happened without your support.

THANK YOU!

73 es God Bless,

.../Art K0ACP

June 4th MARC Meeting Minutes...

MARC Meeting Minutes – June 4, 2026

The meeting was brought to order at 7:30 p.m. at the Salvation Army Building by Dennis, N8ERF, with 23 members present in person and via Zoom. A sign-in sheet was passed around, and introductions were made.

A motion was made by Mitchell, W8DOD, and seconded by Doug, N8NTN, to approve the May meeting minutes. The motion passed. Corrections and additions to the minutes should be brought to the attention of the club's secretary, Linda, KC8MUD.

John, W8QN, presented three months of treasurer's reports, including paid dues, expenses, sales, transactions, and balances. Thank you to all members who have renewed their dues.

Dennis, N8ERF, reported that the school club is finished for the summer season. There are some technical problems that are currently being resolved.

Jeff, KB8SWR, provided an update on the progress of the Repeater Tower Linked System project.

John, W8QN, reported that three repeater sites are up and running well.

Keith, KB8SOE, reported that plans for the Swap are going well, with more than half of the tables already reserved at \$10 per table. Linda will collect \$5 per spot for the trunk sale. Testing begins at 10:00 a.m., and preregistration is required for the testing session. Volunteers are needed to help with setup and cleanup.

Mike, KD8MMH, reported that the Saginaw Club meets on Friday nights at the Harry Brown Airport. He also provided information about the club's Field Day activities.

Art, K0ACP, reported that Midland's Field Day is scheduled for June 27 and 28. Art emphasized that the goal is to learn new things and have fun. Food will be served, and members are encouraged to bring a dessert. Volunteers are needed to help with setup and cleanup. A dress rehearsal is scheduled for June 13.

Lee, KC8ITI, reported that the Dirty Dog Run is scheduled for August 15 at City Forest. Radio operators are needed to help keep the event safe. A sign-up sheet will be passed around at the next meeting.

Kevin, W8QOI, reported that 20 operators have already signed up to assist with the Dow Run.

John, W8QN, led a discussion about purchasing a router for the repeater. Keith made a motion to purchase a router for the repeater for under \$400. Paul, K8PLM, seconded the motion, and the motion passed.

Vice President Kanushi, KE8RNA, brought ice cream and toppings for the members and organized a challenging Amateur Radio trivia game. Both the ice cream social and trivia game were well received and enjoyed by those in attendance.

Mike, KD8MMH, made a motion to adjourn the meeting, seconded by Ron, KC8YVF. The meeting adjourned at 8:45 p.m.

Respectfully submitted,

Linda, KC8MUD
MARC Secretary

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Art Peters, K0ACP

On Sunday, July 19, we've been asked to help Hope Township celebrate its Summer Festival at Woodside Park with a POTA activation. This will be similar to last year's event, where we set up on the east side of the park.

I plan on getting there around 10:00 a.m. and will have a canopy. I'll likely bring my delta loop and, heck, maybe an end-fed or two! I believe the event starts at noon and runs until 3:00 or 4:00 p.m.

All are welcome, and this is a great outreach opportunity for us!

Questions? Contact Art Peters, K0ACP, at K0ACP.COM or message on Discord.

Amateur Radio Newsline Highlights – Report 2540

July 3rd, 2026 (<https://www.arnewsline.org/>)

Canada's federal radio regulatory agency is considering changes to policies covering antennas and towers. Radio Amateurs of Canada and the Federation of Radio Amateur Clubs of Quebec have expressed support for many of the proposed changes. Among their recommendations is raising the antenna and tower height threshold that triggers consultation with local authorities from 15 meters to 20 meters.

Researchers at Boston University are exploring a theoretical system called "StormWall," designed to reduce the effects of severe geomagnetic storms. The concept involves deploying spacecraft in geosynchronous orbit to release materials that would form an artificial cloud of charged plasma. Computer simulations suggest the system could slow the penetration of solar storms into Earth's magnetic field and reduce their strength.

The Collective Communications Group in Ireland has opened a new clubhouse overlooking Ballyscanlon Lake. The 73-member organization includes amateur radio operators, CB operators, and PMR 446 enthusiasts. The group shares space with the 35th Copper Coast Scout Group and plans to continue introducing young people to amateur radio and basic electronics.

RadioID.net, the global registry responsible for assigning DMR identification numbers, has begun a new verification process. Users will receive annual emails asking them to verify their assigned IDs. Accounts that are not verified may eventually be deactivated and removed from the database, allowing unused identification numbers to be reassigned.

The FCC recently completed its first spectrum auction in four years, generating more than \$3.5 billion in bids. The auction included four licenses covering portions of the Advanced Wireless Services spectrum in Chicago, Boston, and New York. The FCC is also preparing for another auction involving at least 100 MHz of spectrum in the Upper C-Band.

The South Australian Repeater Group has launched a new weekly net using the Adelaide Linked Repeater Network. The organization hopes the net will help connect amateur radio operators throughout the region while supporting the continued growth of the group and its emergency communications infrastructure.

Amateur radio operators participating in Field Day at the University of Hawaii's Maui College combined emergency communications demonstrations with efforts to recruit new operators. With hurricane season approaching, local hams emphasized the importance of building a stronger emergency communications network throughout the region.

In the World of DX, several stations are currently active. Aldir, PY1SAD, is operating as 8R1TM from Guyana through July 26. The special event station DLØSOP is active through July 31 for the Sea of Peace Award, and Kou, JP1IHD, is operating as JD1BQP from Chichijima through July 11.

After more than 90 years of broadcasting, BBC Radio 4 ended transmissions on its historic 198 kHz longwave frequency on June 27. Amateur radio operators marked the occasion with special event stations leading up to the shutdown. For many hams, the longwave signal had served not only as a broadcast service but also as a reliable frequency reference for testing and building radio equipment.

MARC Items of Interest

!! DISCORD !!

Please join the members who have already become part of the server to collaborate with others who have Amateur Radio as part of their passion. <https://discord.gg/CEX7kn6ev6>

MARC Merchandise

Did you know that McCreddie Sales has the artwork for MARC? They can put our logo on shirts, jackets, hats, and more. Don't just represent our club, represent it in style. You can go to mccreadiesales.com to place an order with the MARC logo. Contact McCreddie Sales Printwear & Promotion at (989) 631-7650 or visit the store at 601 S Saginaw Rd, Midland, MI 48640!

MARC Help Wanted!

Club Quartermaster - We have been looking for someone to take over for Lee (KC8ITI). This is a great opportunity!

Newsletter Deadline

Contact KE8RNA at ke8rna@arrl.net if you would like to submit anything— articles, images, events, ideas, etc. — to the newsletter. The deadline for items for inclusion in the newsletter is the last Thursday of the month!

MARC Meetings

Kanushi Desai is in charge of presentation topics for our monthly meetings. If you have a topic on which you would like to present or would like to lead a discussion, please contact her at ke8rna@arrl.net. To volunteer for **net control**, contact Ric Sauer KD0RMK at kd0rmk@arrl.net

VE Examination Sessions

If you need to find an examination session, please check the ARRL website for scheduled exam sessions in Michigan at: <http://www.arrl.org/arrlvec/examsearch.phtml?State=MI>
Or contact Dennis Klipa by email at N8ERF@arrl.net or call at (989) 948-5427.

Global Ham Radio News

If you're interested in staying up to date on amateur radio news beyond our local activities, be sure to check out Ham Weekly at <https://daily.hamweekly.com/>. It's a convenient way to keep a pulse on what's happening in the broader amateur radio world.

MARC VITAL STATISTICS

Memberships Expiring in July 2026

NONE

Memberships Expiring in August 2026

K8GTG KD8MMH KE8DON W8QOI

Current Active Club Membership

KC8ITI* N8CGP* N8ERF* W8QN* K8VFO* KC8MUD* KB8SOE K0ACP KE8DON
K8GTG N8LBF N8GEM K6VWE KE8ZKS KF8BYT W8PMR KB8PGW W8PMR
KF8DSP W8DOD K8VB N8NTN KE8MND KC8YVF KD0RMK AC8QF WB8WNF
KD8MMH KE8RNA N8NNA, W8QOI K8WSR KF8FGO W8RBF N4DBR KF8GJG
K8LQV KD8ZXS

*Life Member

Memberships Recently Expired

AB8PS KF8DSP KE8ZKS KF8BYT K8PLM K6VWE

New Memberships

K8QLV KD8ZXS

Renewed Memberships

N8GEM KF8DSK KB8HIK

Birthdays Celebrated in July 2026 🎂

N8NTN

Birthdays Celebrated in August 2026 🎂

K8VFO N8LBF KB8HIK

Information based on data received June 21st, 2026

About the Midland Amateur Radio Club

W8KEA is the Amateur Radio call sign assigned to the Midland Amateur Radio Club (MARC) by the Federal Communications Commission. MARC, established in 1948, holds monthly meetings of its members at 7:30 pm on the first Thursday of every month at the Salvation Army Building located at 220 S Waldo Ave, Midland, Michigan. MARC is dedicated to the support of the Amateur Radio community in the Midland area, to providing public service and emergency communications to the community, and to educating the public in all aspects of Amateur Radio. MARC provides communications support for community events such as the annual Dow Run and the MS Walk on a completely voluntary basis. MARC also works closely with the Midland County Department of Emergency Services, the Red Cross, and the Salvation Army to provide voluntary emergency communications support in times of emergency, disaster, or severe weather events. MARC offers classes to anyone interested in earning an Amateur Radio License. The club repeater, W8KEA, operates on a frequency of 147.0000 MHz with a positive offset. The PL tone is 103.5. MARC also offers examination sessions so you can take your FCC examination here in Midland. MARC advisors lead the Electronics and Wireless Communications Clubs at Northeast Middle School and Midland High School.

Interested in knowing more about Amateur Radio? Come on down to our next meeting. Everyone is welcome, and we would be happy to get to know you.

MARC is a 501(c)(3) organization. The club's articles of incorporation and bylaws are available for review.

You can learn about amateur radio by visiting the American Radio Relay League website.



If you desire to join the **Midland Amateur Radio Club**, the dues are \$20 per year and \$5 for additional family members. Membership includes a *Monthly Newsletter*. Please supply the following information:

Name _____ Call: _____ N T G A E _____

Mailing Address _____

City _____ State _____ Zip _____

E-Mail _____

Birthdate (mmddyy) _____ Anniversary _____

Telephone-Home _____ Work _____

Are you an ARRL Member? Yes _____ No _____

If not an ARES member, do you want an application? Yes _____ No _____

Please send to MARC, P.O. Box 1049, Midland MI 48641

❖ **!!STOP RIGHT THERE!!** ❖

This is the end... for now. I hope you enjoyed this edition!

Be Radio Active! 73!

