

MARC August 2025 NEWSLETTER



President	Dennis Klipa N8ERF	(989) 948-5427
Vice President	Paul Morabito K8PLM	(989) 859-6669
Secretary	Linda Hodges KC8MUD	(989) 652-6213
Treasurer	John Wolters, W8QN	(989) 832-9122
W8KEA Station Trustee	John Wolters W8QN	(989) 832-9122
Midland County RO	Jack Robinson K8GTG	(989) 492-4882
Midland County EC	Ric Sauer KD0RMK	(210) 802-9537
Newsletter Editor	Kanushi Desai KE8RNA	(989) 948-5889
ARRL VEC Liaison	Dennis Klipa N8ERF	(989) 948-5427
Web Page Chairman	Max Schneider KE8DON	(989) 859-4288
Club Historian	Stan Rowe K6VWE	(989) 837-7252
Quartermaster	Lee Hodges KC8ITI	(989) 486-3771
Public Information Officer	Paul Tolly N8GEM	(989) 492-1239
Swap Committee Chair	Keith Johnson KB8SOE	(989) 948-5427
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 — August 7th, 2025, at 7:30 pm, Salvation Army Building, 220 S. Waldo Ave.

Summer! Longer days and warmer weather bring new opportunities for outdoor operations, emergency preparedness drills, and antenna projects. Whether you're chasing DX, experimenting with new modes, or simply enjoying the camaraderie of fellow hams, there's always something exciting on the airwaves!



Copyright 2005 American Radio Relay League

View From the Top of the Tower

From the MARC President, Dennis Klipa N8ERF

Summer is winding down, and school will start too soon, on August 19th! July has been a busy month. The big amateur radio event in the area was the POTA activation by Art, KOACP, of a park in Hope Township. See Art's article later in this newsletter. We should do more of that. We had a couple of small equipment donations. We have started talking about what we might want to do with the club's Comms trailer to make it more useful. The school clubs are going to be starting up soon, and we have started the planning process for those activities. Ric and Jack are contemplating some training exercises to prepare us for when our communication skills are needed. We have started talking about restarting field day and how to make it fun. Kanushi is developing plans to reach her Youth Coordinator role goals. We have had some movement on the repeater front. See the repeater article in this newsletter. The September meeting and elections will be here before we know it. You might want to consider doing your part and serving as an officer. I would not be offended if someone wanted to replace me. And the VP job is a good one. You might want to think about what you want the club to do in the future.

73, Dennis, N8ERF



School Clubs Report

From the MARC President, Dennis Klipa N8ERF

We are still working on the plans for the two school clubs, so the plans are not finalized. At the high school, we have to share our storage space with the Art teacher, so we are struggling a little bit about how that is going to work. We are going to try an experiment. Recently, we have been having the students work on activities individually, at their own pace. We are going to transition to group projects/activities. At this point, we are going to focus on two main activities: 1) Competitively, within the club, design and fly balloons that will attempt to carry payloads around the globe, and 2) develop the equipment and skills to excel at the radio sport of Radio Direction Finding. We will continue to teach the basics of electronics and amateur radio through these activities. But to be honest, we don't know how this is going to work or how successful we are going to be. But it should be fun trying. On July 31st, while work was being done on the repeater remote receiver antennas on the roof of Midland High, Lee, KC8ITI, took the opportunity to repair the G5RV antenna that is used with one of our HF stations.

At Northeast, we will continue with the program that seems to be working well. I am going to try to convince my fellow advisors to try another experiment. One of the issues is that we tend to do the same thing every year with some minor variations. That is just fine, except that the students who are returning to 8th grade have already done most of it. This year, I want to explore the idea of taking the second-year students on a different journey that includes installing an HF operating station, maybe a VHF station, and exploring the subjects needed to pass their Tech exam, without the students knowing they're taking a Tech class. I am not sure how this will work yet, but again, it should be fun trying. I am meeting with Tim Kipfmiller to look at installing an antenna or two.

★ From the Michigan Section Manager, Larry Camp, WB8R- July 2025 Section News...



Greetings to all who read this, Summer is here, and the first burst of hamfests in the Spring has been completed, and the mid-summer swaps are few and far between. The summer heat is a factor, plus it is prime family vacation time. Things pick up again in September, and we will be busy up through mid-October and onto the season finale in early December. On June 7, the Parks On The Air (POTA) held a very successful meet-up at Custer State Park near Augusta, MI, and while I was at a hamfest in the Upper Peninsula (Newberry). I understand that a large crowd attended this event. The 3rd Annual Michigan POTA Meetup is scheduled for Saturday, June 6th, 2026, at Hartwick Pines State Park. We will have more information available as the date approaches. Mark your calendars now! The hamfest season is in full swing in Michigan with a strong number of swaps organized and on the docket for 2025. Hamfests are a good barometer for determining several things: economic conditions, general attitude of the amateur population, and of course, the weather conditions always play a role in hamfest travels.



From the Midland County EC...

Ric Sauer KD0RMK

ARES Members

Please join me for breakfast on 9 August to discuss the path forward with our Midland County ARES team. Breakfast will be at Bob Evan (7000 Eastman Ave, Midland) at 8:15 AMish. Topics for discussion include event planning, practice events, and community service. All ideas are welcome and non-ARES members are invited. Please let me know if you plan to attend via DISCORD or via email. Hope to see you Saturday morning.

If anyone has participated in ARES events or training in support of ARES or other emergency services, please send me a message that contains information about the event, time, date, and total hours / minutes spent in support of the event. This helps us identify the level of county participation as well as help in planning future training events and practice exercises. This year the National Weather Service did not have a local training event in Midland. As a reminder to everyone, you can participate in any NWS storm spotter training or take the course on-line. Either way you get the required training and get credit for your time spent.

We're also looking for some ARES members that would like to take on the role of Assistant Emergency Coordinator (AEC). The responsibilities will vary depending on the qualifications and your personal desires. Current target positions include training, field coordination, and capabilities tracking. Ric Sauer - KD0RMK@gmail.com





From the Midland County RO...

Jack Robinson K8GTG

HOW TO GET ALERTS FROM THE CITY/COUNTY

In last month's newsletter, I outlined at least 7 different ways you can stay informed with official messages from the City/County of Midland. Sadly, the severe flooding in Texas last month was a stark reminder that timely warnings of severe weather can be the difference between life and death. While the county does have outdoor sirens (tested each 1st Saturday of the month at 12:45pm), these don't really tell you what the issue is (tornado, chemical plant emergency, etc.) And these sirens are not designed to alert people who are indoors.

Fortunately, Midland City & County can send you a timely text or email message to you with an alert and suggested courses of action. Sign up to a service called "Nixle/Everbridge". With Nixle, you can receive a text and/or an email message for the zip codes you're interested in monitoring. Nixle is completely free with no fees, its a free service provided by the county.

How to Sign Up to Nixle:

Fast method: Send a text to 888777 with your ZIP CODE for instant sign up.

More Options method: With a browser, go to www.nixle.com, pick the "Resident sign-up and login" button, then pick the "Sign Up" button. Fill it in and you're all set. The beauty with this method is you can add additional locations to get notified about. Have family members in other states but want to be informed of their government alerts? Easy! With those alerts, you can check in on family members who might have missed a warning. You can also get the same text delivered as an email if you prefer that over a text.

You can opt-out or change your preferences at any time by logging into the service above. In the 6+ years I've been subscribed, not a single spam text from this service.

I find the Midland County Central Dispatch alerts very helpful. During the 2020 flood, the above service was one of the methods used to warn residents to evacuate the area. Central Dispatch will also alert you to other events, such as road closures or public safety issues.

Stay in the know with community alerts - sign up for Nixle



Repeater Report...

Submitted by Dennis Klipa N8ERF for John Wolters W8QN

Background

About two years ago we were forced to find a new home for our repeater without much opportunity to put together a proper long-term, well-considered plan. As a result, we had to make some expedient decisions. Fortunately, the owner of the Animal Hospital on M20 and 5 Mile had an unused tower and offered to let us use it. We knew that we wouldn't have the HT coverage we wanted inside the city limits, but we were and are confident that we could resolve that problem. What we didn't anticipate was additional problems with the repeater at the new site which limited our coverage area. We knew the elevation was lower, but that did not explain everything we observed. We decided to replace the antenna coax and have the isolation filters "Cans" retuned. Those two things have made a big improvement, but we still have coverage deficiencies. As a stop gap measure, we installed a remote receiver at Midland High School using existing and inappropriate antennas fed with about 400 ft of coax on our school tower. That resulted in a lot of loss in the coax at the VHF and UHF frequencies. It

was not exactly ideal. While that did help it was still lacking. We got permission from the school district to put proper remote repeater antennas on an unused tower on top of Midland High, with much shorter runs of coaxial cable. The roadblocks to getting this accomplished were the availability of a climber and weather.

Update Today

The new remote receiver antennas were installed today, July 31 st , in a project led by John, W8QN, and assisted by Lee, KC8IT and Mitchell, W8DOD. The remote receiver can now be installed, maybe even before this newsletter is published. The plan would be to then return the temporarily installed remote receiver to the Edenville site. Then we will evaluate the repeater coverage with emphasis on coverage within the city. Another issue that has been keeping us from fully utilizing our repeater was the lack of internet access at the repeater site. We had been offered access to the internet by the building owner, but there has been a delay in getting their network configured for isolation from our activity. We should be able to have access to the internet in the very near future. We continue to look at options and ways to improve the system. We will be sending out a survey to Club members to get a sense of what the membership wants or expects from our repeater system. We will also reserve some time to have an in-person discussion on this topic at an upcoming MARC meeting.

UPCOMING EVENTS 👁️

- Sep 6, 2025, Grand Rapids Area Hamfest, Wyoming, MI (WB8R, K8TB)
- Sep 13, 2025, OAARS Hamfest, West Branch, MI (TBD)
- Sep 13, 2025, GMARC Trunk Swap, Shelby Twp, MI (TBD)
- Sep 14, 2025, Adrian Hamfest, Adrian, MI (WB8R)
- Sep 20, 2025, Top of Michigan ARC Hamfest, Gaylord, MI (WB8R)
- Oct 2, 2025, MAARC Meeting, Muskegon, MI (WB8R)
- Oct 4, 2025, Kalamazoo ARC/SMART Vintage Electronics Expo (WB8R)
- Oct 4, 2025, Copper Country Hamfest, Baraga, MI (TBD)
- Oct 11, 2025, Muskegon Color Tour Hamfest, Muskegon, MI (WB8R)
- Oct 19, 2025, USECA Hamfest, St. Clair Shores, MI (TBD)
- Dec 7, 2025, LCARC ARC Hamfest, Troy, MI (WB8R)



(Michigan / ARRL)

Items of Interest

Did You Know

[Hedy Lamarr](#) played a part in the technology we use today?

In 1940, Lamarr met George Antheil and had a casual conversation over dinner. The two came up with an extraordinary new communication system used with the intention of guiding torpedoes to their targets in war. The system involved the use of “frequency hopping” amongst radio waves, with both transmitter and receiver hopping to new frequencies together. Doing so prevented the interception of the radio waves, thereby allowing the torpedo to find its intended target. After its creation, Lamarr and Antheil sought a patent and military support for the invention. While awarded U.S. Patent No. 2,292,387 in August of 1942, the Navy decided against the implementation of the new system. The rejection led Lamarr to instead support the war efforts with her celebrity by selling war bonds. Happy in her adopted country, she became an American citizen in April 1953. Click the link above to learn more!

Introducing Radio Alpha, the ARRL Museum and Research Library

<https://www.arrl.org/news/introducing-radio-alpha-the-arrl-museum-and-research-library>

There’s a new resource from ARRL documenting the history of ham radio. Radio Alpha is the ARRL® Museum and Research Library. It is available for viewing at www.arrl.org/museum. Radio Alpha is envisioned as a Wikipedia-like project, administered by a trusted group of volunteers. It aims to serve as a definitive repository of information, offering detailed descriptions and contextual data on pivotal figures, influential organizations, pioneering companies, transformative inventions, and iconic equipment that have shaped the amateur radio landscape. Radio Alpha addresses the critical need for a centralized, reliable, and easily navigable archive of amateur radio's past. Recognizing the fragmented nature of existing historical data, this database will consolidate diverse information sources into a single, cohesive platform. Users will find meticulously researched entries, cross-referenced to provide a holistic understanding of the connections and evolutions within the hobby. A core principle of Radio Alpha is universal accessibility. Therefore, the database will be entirely free to access, ensuring that researchers, historians, enthusiasts, and the public can explore its contents without barriers. Noted author, industrial archeologist, and historian Chuck Penson, WA7ZZE, is the principal architect who crafted the collection. Penson has published several books about the history of Heathkit and the Titan II missile. For him, it’s a labor of love and necessity. “Somebody has to do this,” said Penson. “Lots of people are doing it independently on their own – here’s a website about the equipment I own, and here’s some documents I scanned – there’s a lot of that.” The lack of a central location to compile those collections is the root of Radio Alpha. Penson hopes the research library will preserve the data long after individual contributors have passed away. The platform is committed to being free of advertising, spam, and clickbait, prioritizing the integrity of its historical content and providing an uncluttered user experience. “This database will be a living resource, regularly updated and expanded through ongoing research and community contributions, fostering a deeper appreciation and understanding of amateur radio's profound impact on communication, technology, and society,” wrote Penson.

Radio Alpha seeks contributors and volunteers to help develop the content. Hams who have a passion for the history of radio, experience in writing, or extensive knowledge about a particular brand or mode of amateur radio are encouraged to volunteer. The museum also seeks materials that may help grow the collection. Those interested may reach out to Penson at radioalpha@arrl.org.

Penson hopes the data will be preserved forever. “ARRL has an organizational structure that allows it to take a long view on stuff like this. It is best equipped to handle a project like Radio Alpha.” Radio Alpha, the ARRL Museum and Research Library, may be enjoyed at www.arrl.org/radioalpha or www.arrl.org/museum.

Safety Stand-Down: Look Up and Live

By Sierra Harrop, W5DX, ARRL Public Relations and Outreach Manager
<https://www.arrl.org/news/safety-stand-down-look-up-and-live>

Electricity is a killer. About 150 people die each year at work from contact with electricity, according to the Electrical Safety Foundation International. Half of those are from contact with power lines. That data is just workplace deaths, so recreational and public service volunteering aren't even accounted for. In a recent article, ARRL New Mexico Section Manager Bill Mader, K8TE, shared safety concerns and processes that can be implemented at ARRL Field Day sites. I'd like to share a simple phrase that may enhance your situational awareness: Look up and live. “Look up and live” was drilled into me and every other television news employee who worked with electronic news gathering vehicles that had a pneumatic mast or satellite dish. It was the title of an industry-standard safety video published by the National Press Photographers Association. In TV news, where I spent the first two decades of my professional career, there was always a deadline and often a tremendous sense of urgency at the scene of breaking news to get a live shot up first. Before the days of bonded cellular internet streaming, we used radio – microwave and satellite – to take viewers to the scene. No matter the pressure from news managers, safety was paramount. When we approached a scene, we made sure to park the live truck at least 10 feet away from overhead wires to comply with regulations. My personal minimum was two truck-lengths from any lines, ideally a whole mast-length. If I had a 58-foot mast, I'd try to park at least 58 feet away from the nearest power line. Identifying overhead lines was ritualistic: As I arrived, I got out of the vehicle, walked 20 feet away, looked up and walked around the entire perimeter of the truck while deliberately searching for overhead lines and obstructions. This additional 45-second process could feel like an eternity when news was unfolding dramatically for me to capture and report – but I couldn't go live if I was dead. In pursuit of our amateur radio hobby, we should apply even more diligence. There's no pressure to get on for a ham radio activation. Take your time, walk around, be diligent. Look up and live. Portable masts, vertical antennas, wire antennas slung up into a tree – anything you put up can become energized if it contacts an overhead wire. Do not take chances. Even what appears to be a phone or fiber line could be carrying lethal voltages. Do not become the path to ground. One additional tip that I hope never applies to a radio amateur: Should a vehicle you're in become energized by a fallen line or a mast erected into power lines, do not leave it unless it is on fire. Call for help via phone or ham radio. Yell at any bystanders to not approach your vehicle. Electricity spreads out from a path to ground in concentric rings of decreasing voltage. Being in contact with different voltages is what will kill you. If a fire requires you to exit, carefully jump clear of the vehicle so as to not contact the vehicle and ground simultaneously. Be mindful of

your movements: “Bunny hop” with your feet together or shuffle your feet on the ground in small increments without lifting either of them. Do not provide a path between the different potentials by walking normally or by falling and catching yourself with your hands.

Please be careful when erecting portable gear within the wires environment. Remember: Look up and live.

POTA Activation

By Art, K0ACP

POTA-ON!

This is a story years in the making. Back in 2016, the ARRL, in concert with the National Park Service, launched a year-long operating event: National Parks on the Air (NPOTA). The idea was simple—go to a national park, set up your portable radio, and operate. It was a fantastic way to boost radio activity and celebrate the incredible treasure we have in our National Parks. I took on the challenge and set up my IC-7000 at Sleeping Bear Dunes, running PSK for an activation using a homemade dipole and a 31’ fiberglass pole. I had a blast! Unfortunately, the program only lasted one year—but it sparked a passion for portable operating that never left me.

POTA is Born

A group of ham enthusiasts didn’t want the NPOTA experience to fade away. In 2017, they launched Parks on the Air (POTA). It took off faster and grew larger than anyone expected. In 2023 (if my memory serves me correctly), our own Dave Wallick, N8LBF, gave a talk at a W8KEA meeting and followed it up with a group activation at Bluff Creek M-18 Floodings Wildlife Management Area, US-6632. I attended the event as a spectator—and while I didn’t know it then—I was hooked.

I Catch the POTA Bug

I started out as a hunter. That’s when an operator goes searching for POTA activators. It was new, fun, and the POTA team gamified the experience with a number of online awards—certificates, or as we call them, “wallpaper.” About a year later, in July 2024, I brought my KX3 into a meadow on the backside of US-6632 and completed my first activation. It was slow going with only 10–15 watts and a compromised dipole, but the hook was set. My proficiency and confidence quickly grew. Along the way, I even relearned CW—and now, almost all my activations are in CW. On Labor Day 2024, I joined Kathy (KD0JHX, my XYL), Pat (W8PMR), Wendy (K8WSR), and Russel for my first group activation at Kawkawlin Creek Flooding Wildlife Management Area, US-6711. We had a fantastic time and immediately agreed to do it again.

The Big Event

Part of the appeal of POTA is the gamification: the awards, certificates, and special operating events. One of the biggest is Support Your Parks Weekend, held quarterly. The most recent one

was the third full weekend in July. I had an idea—why not put together a team for a group activation at US-6711? It has great facilities. I sent out an email and got some interest. I then checked with MARC to see if they'd help get the word out to the local ham community. President Klipa agreed, and an email invitation was sent out to the club and other local groups. As luck would have it, the municipal park we use for US-6711—Woodside Park in Hope Township—was hosting its annual community event the same weekend. I reached out to the Hope Parks Commission, and they welcomed us to set up as part of their festivities.

Saturday, July 20th

We assembled at Woodside Park around 10:00 AM to start setting up. We had a great variety of stations, operators, and antennas: a couple of verticals, an End Fed Halfwave (EFHW), a delta loop, and a ladder line-fed doublet. Dennis (N8ERF) brought the club trailer, and we ran an open house. The main operators were Wendy (K8WSR), Dave (N8LBF), John (KB8PGW), and me (K0ACP). John and I focused on CW, while Dave and Wendy handled phone communications. Altogether, we logged 109 contacts and had a great time doing it. The highlight for me? Our band walk—we started on 160M at 0 watts and worked each other across the bands: 160, 80, 60, 40, 30, 20, 17, 15, 12, 10, and 6. For me, it was my first experience on 60M—who knew?

Epilogue

We all had a blast and agreed to do it again—maybe next time with a bag of charcoal and some burgers and dogs. If you've never tried POTA, either as a hunter or activator, I challenge you to give it a go. Hop on the [POTA.app](<https://pota.app>) website, find an activation, and respond to their CQ. If you've already hunted but never activated, find a local park and try it. But be warned—the bug bites hard, and once it gets you, you'll find yourself going back for more. Many thanks to everyone who helped make this event happen—whether through planning or participating. Thanks also to the Midland Amateur Radio Club for helping spread the word. And a special thanks to my beautiful bride, KD0JHX, who not only allows but encourages me to be POTA-active.

73 es God Bless,
Art, K0ACP

SOS Dirty Dog Run

The Dirty Dog run is on Aug. 16th 2025. Volunteers are needed to man positions on the City Forest course for the 5K and 10K runs. Check in will be at the North City Forest parking lot on Monroe just West of Eastman prior to 8 AM and operators should be on station by 8:30 AM. The first race starts at 9 AM. The event should be finished by noon. Assignments will be given when checking in. If you would like to help with this worthwhile event or need more information contact Lee, KC8ITI at (989) 486-3771 or email me at kc8iti@arrl.net.

Lee - KC8ITI

!! DISCORD !!

Did you know we have a Midland Emergency Communication DISCORD site? This is open for all central Michigan amateur radio operators, however it has highly targeted channels that are

specific to Midland and Saginaw County as well as ARES members. Please join the members that have already become part of the server to help shape our local communication enthusiasts and collaborate with others that have Amateur Radio as part of their passion.

<https://discord.gg/CEX7kn6ev6>

With over 28 million servers, Discord has something for everyone. In the last few years, over 500 amateur radio servers have appeared using Discord. Real-time collaboration with your team members and the ability to pick areas of interest to you within a server platform makes this a terrific information sharing environment.

MARC Merchandise

Did you know that McCreadie 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 McCreadie 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!

Field Day Committee - We are looking for someone to fill this open position! Contact Dennis Klipa N8ERF at n8erf@arrl.net for more information :)

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

Paul Morabito is in charge of presentation topics for our monthly meetings and has been doing a good job. If you have a topic on which you would like to present or would like to lead a discussion, please contact Paul at (989) 859-6669 or plmorabito21@gmail.com

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](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.

Crossword Puzzle of the Month :)

(email ke8rna@arrl.net for hints/ key)

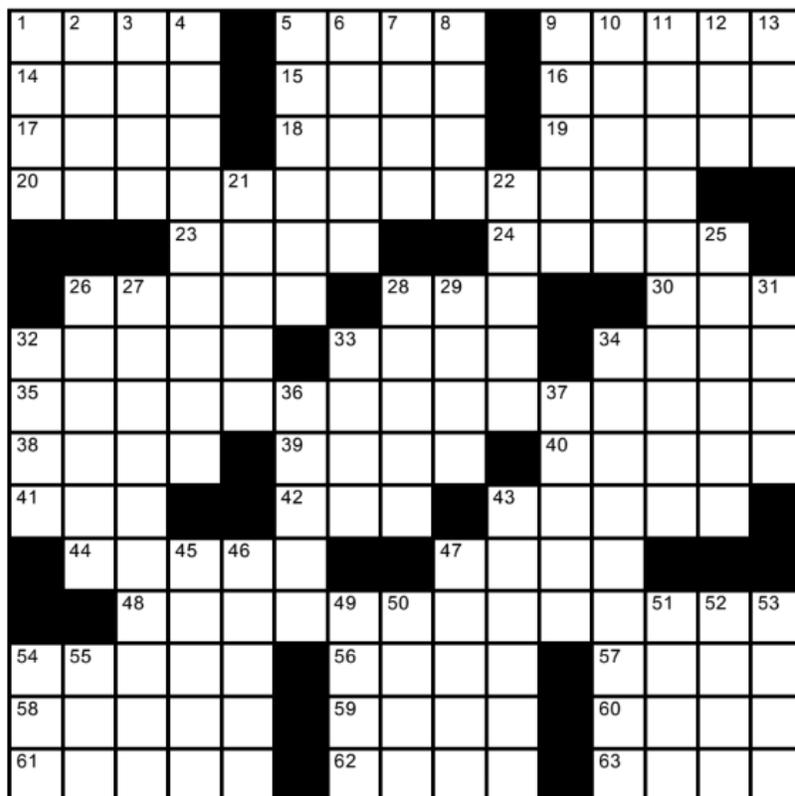
by Chris Codella, W2PA

10/29/2007

Propagation

Across

1. "WRTC grand ___" - working all 1x1 calls
5. Parts supplier McMaster-___
9. Sword handles
14. Digital music std.
15. Silent Key article, briefly
16. Fill with joy
17. Antenna restrictions might be on this
18. A craving for that last multiplier, say
19. Northern city with F call prefix
20. DXers' mood swings?
23. Decades over S9
24. Sharpens
26. Early term for static crash (1920's)
28. Nothing more, on CW
30. Ocean
32. "Air" for an early ham
33. ___ gum - a thickening agent
34. Hams xmit and rcv with them
35. The way, for signals
38. A non-radio bug
39. A hamfest of the Internet
40. Type of eel
41. Code inventor, for short
42. A comfortable ham shack might be here
43. Law school course
44. VK animal
47. Baseball glove
48. A six or ten meter DXer's hope
54. Do this on your meter to measure line voltage
56. Board here, for going /MM
57. Capacitor dielectric material
58. CW predecessor
59. Medical breakthrough



60. Vy much
61. DC power sources, briefly
62. Cluster item
63. Maine prefix, possibly

Down

1. Tiny parts (abbr.)
2. In ___ of (instead of)
3. Gulf of ___, off the 70 coast
4. Where not to change horses
5. VK was once a British one
6. Borders on
7. A microprocessor type, briefly
8. Non-military RATT
9. "___ radio" (testing, sometimes)
10. SETI call answerer

11. Calling CQ TEST one minute before the contest begins
12. Kind of logic ckt
13. You can do it with ATV
21. Lively
22. Boorish sort
25. Told someone to wait, on CW
26. Winning several contests in a row
27. It might increase your amplifier's blower speed
28. Holy book, in HZ-land
29. R-rated, maybe
31. Grayish
32. Oval insulators
33. Jeer
34. A contester, in a broader sense
36. Fragrant wood
37. Ham it up, in a way

43. FCC license, slangily
45. Like an untouched Heathkit
46. Freezes a digital VFO
47. Prefix with chip or wave
49. They feed DSP ckts, usually
50. Arrange, as hair
51. Prefix with watt
52. Clickable image
53. Gourmet cracker spread
54. Particularly slim type of AM
55. 3-land ARRL section

 **MARC VITAL STATISTICS** 

MEMBERSHIPS EXPIRING IN August 2025

KE8RNA KD8MMH

MEMBERSHIPS EXPIRING IN September 2025

WB8WNF

CURRENT ACTIVE CLUB MEMBERSHIP

KC8ITI* N8CGP* N8ERF* W8QN* K8VFO* KC8MUD* KB8SOE K0ACP KE8DON
K8GTG N8GEM K6VWE KE8ZKS KF8BYT W8PMR KB8PGW W8PMR K8PLM
KF8DSP KF8DSP AB8PS W8DOD K8VB KF8DSK N8NTN KE8MND KC8YVF
KD0RMK AC8QF KB8HIK N4DBR WB8WNF KD8MMH KE8RNA

*Life Member

MEMBERSHIPS RECENTLY EXPIRED

KD8QAM

BIRTHDAYS CELEBRATED IN AUGUST 2025

K8WSR KB8HIK K8VFO

Information is from data received on June 27th, 2025

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 330 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 event. 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 (mmddy) _____ 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!

