

Tri-Lakes Monument Radio Association

Just having fun
messing around with **radio!**



Newsletter

June 2025



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A Word About the Newsletter

The Newsletter welcomes submissions of articles or other items of interest to WØTLM members. Contributions may be articles, commentary, photographs, notification of events, fun things, reports of interesting radio activities, and more!

It's YOUR newsletter. Let's hear from YOU!

Email Editor



From the Prez

Bob WØHTH



A Season of Spectacular Events!

It's that time of year, with lots of fun and educational radio events happening! Let's review.

Endurance Ride: We'd like to extend our sincere thanks to all the dedicated volunteers who assisted with radio communication support during the **Greenland Equestrian Endurance Ride**. Especially Tricia, KØTRD for organizing, leading and serving as net control. The time, skills, and professionalism of the entire team ensured a safe and successful event. This is a perfect example of the vital role amateur radio plays in our communities—well done!

Hamvention! Also, this month we had a small group of members travel to Ohio to visit HAMVENTION! My wife and I were joined by Jim NCØJW, Barbara KØBE, Michael KØEZE, his wife and a surprise visit from Bob KØNR and Joyce KØJJW. A great time was had by all; we even had a chance for some camaraderie around dinner. It was an opportunity to get some face to face QSO's, visit with manufacturer's reps, see family, do some POTA and of course, save on the shipping cost of products!

Field Day: Mark your calendars and get your gear ready—**ARRL Field Day** is almost here! Join us on **Saturday, June 28 at Fox Run Regional Park, Pavilions 4 & 5**, for a day full of food, friendship, and fantastic radio fun.

Field Day is one of the most anticipated events on the amateur radio calendar, and this year promises to be better than ever. It is amateur radio's *Open House*.

Continued...



Our Hamvention group had a fun time dining out after the day's events in Xenia, OH. Hamvention was a blast! (Photo by Mike KØEZE).



Hot Announcements

- **June Monthly Meeting:** Mon, 16 June, 6 - 9 PM, Monument Chamber of Commerce meeting room. Doors open for Connect Time from 6:00 PM to 7:00 PM. Come meet other members, socialize, & have fun!

Presentation: Phoebe K1PCS - Amateur Radio & Emergency Services.

Zoom simulcast link for meetings: <https://w0t1m.org/w0t1m-club-meeting> You will be placed in a waiting room until the host activates your entry. Please display name & call sign.

- **ARRL Field Day Op:** Sat 28 June, Fox Run Park Pavilions 4 & 5. Come out to see your club-mates, enjoy some BBQ, and make or observe Field Day HF contacts. Fun guaranteed!

From the Prez, continued

Officially, Field Day is not a contest. However, many hams log and submit contacts as if it were a contest. We'll be setting up portable stations to operate in the field, showcasing the versatility and reliability of amateur radio in any environment. Whether you're a seasoned operator or new to the hobby, this is a great chance to get on the air, learn new techniques, and meet fellow hams.

What to Expect:

- Operating Stations: Get on the air with voice, CW, and possibly even digital modes
- HF Opportunities: Technicians can get on the HF Bands using the club call-sign
- Plenty of Food: We will have BBQ pulled pork and snacks throughout the day
- Fellowship: Connect with friends old and new who share your passion for radio
- Public Outreach: Help introduce amateur radio to visitors and curious park-goers

This is truly a great opportunity to get on the HF Bands. Many Hams, no matter your license class, have never really operated portable or HF at all. Field Day gives us the chance to experience new things and try out the club station and check out various equipment. In the past we have had folks get on the air for the first time to work their first DX. Bring your radio gear if you'd like to set up your own station, or just come to operate, log contacts, and enjoy the camaraderie. Family and friends are welcome—there's something for everyone! (Playground is close by). No one will be turned away or pressured to make contacts "contest style." Our club does not do Field Day as a contest, it is more a social event.

Location: Fox Run Regional Park

Date: Saturday, June 28, 2025

Time: Setup begins at 11:00 AM, with operations running until 5:00 PM

Let's make this Field Day a memorable one. See you at the park!

AI Fun: Finally, have fun by participating in our newsletter's **AI Image Exhibition and Contest** this month! See "Just for Fun" in this issue.

Remember, it's not the class of license the amateur radio operator holds, but the class of the operator who holds the license.



Jurassic Parks On The Air (JPOTA)

Created with Grok AI. Try your hand at AI-generated ham radio imagery and enter our exhibition. It's fun!

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-- Bob WØHTH, President

Got feedback or suggestions for our WØTLM leadership?

Drop a note on our officers with your comments or recommendations for WØTLM.

It's YOUR club. Let's hear from YOU!

Email Leadership



Tech-Knowledge

Bob KØNR



VHF Multipath: More Than One Signal Path

(First published at [Ham Radio School](#))

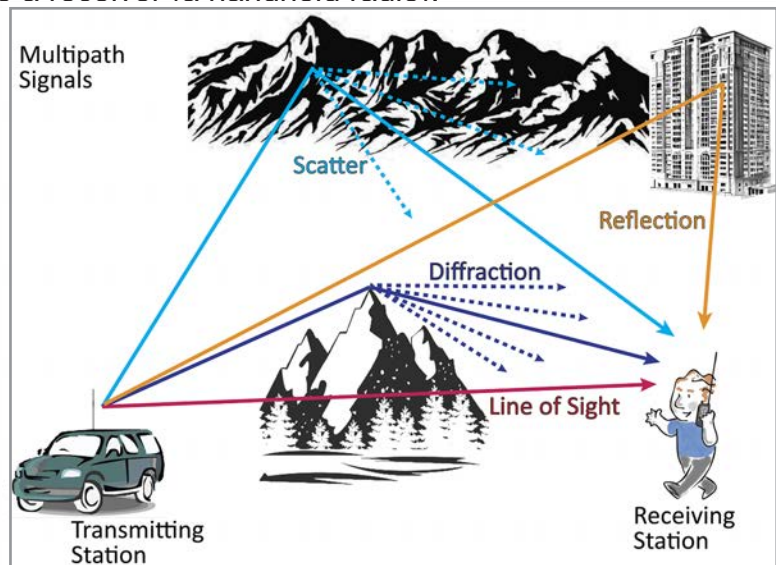
Multipath distortion is a common phenomenon that I've become accustomed to living in a mountainous region. It can mess up your signal and create some interesting and confusing distortion. Multipath can also occur in other areas when signals bounce off objects such as tall buildings. The figure below shows several different ways that multiple signals can propagate from the transmitter (a mobile station) to a receiver (a handheld radio).

Scattering occurs when radio waves encounter objects or irregularities—such as rough surfaces, small obstacles (e.g., leaves, raindrops, or rocky edges), or atmospheric variations—that are comparable to or smaller than the wavelength. The waves are redirected in multiple, often random directions, spreading the signal's energy.

Diffraction is the bending of radio waves around the edges of an obstacle or through an opening, allowing signals to reach areas that would otherwise be shadowed. It happens when a wave encounters a barrier (like a hill, building, or knife-edge structure) and curves into the region behind it.

Reflection occurs when radio waves strike a large, relatively smooth surface—like a mountain face or tall building—and bounce off at an angle equal to the angle of incidence (think of a mirror). Reflection is wavelength-dependent but typically involves surfaces much larger than the wavelength.

Constructive or Destructive? These signals take different paths, some longer than others, arriving at slightly different times at the receiver. These multiple signals combine at the receiver and may cause multipath distortion because of constructive and destructive interference.



Multipath distortion occurs when the signal from the transmitting station takes multiple paths and recombines at the receiving station. Signals may travel directly by "line of sight," scatter from irregular surfaces, diffract over or around sharp edges, and reflect from some surfaces and materials. Each signal path takes slightly different time, potentially scrambling the signal phase relationships of the various signal paths at the receiving station.

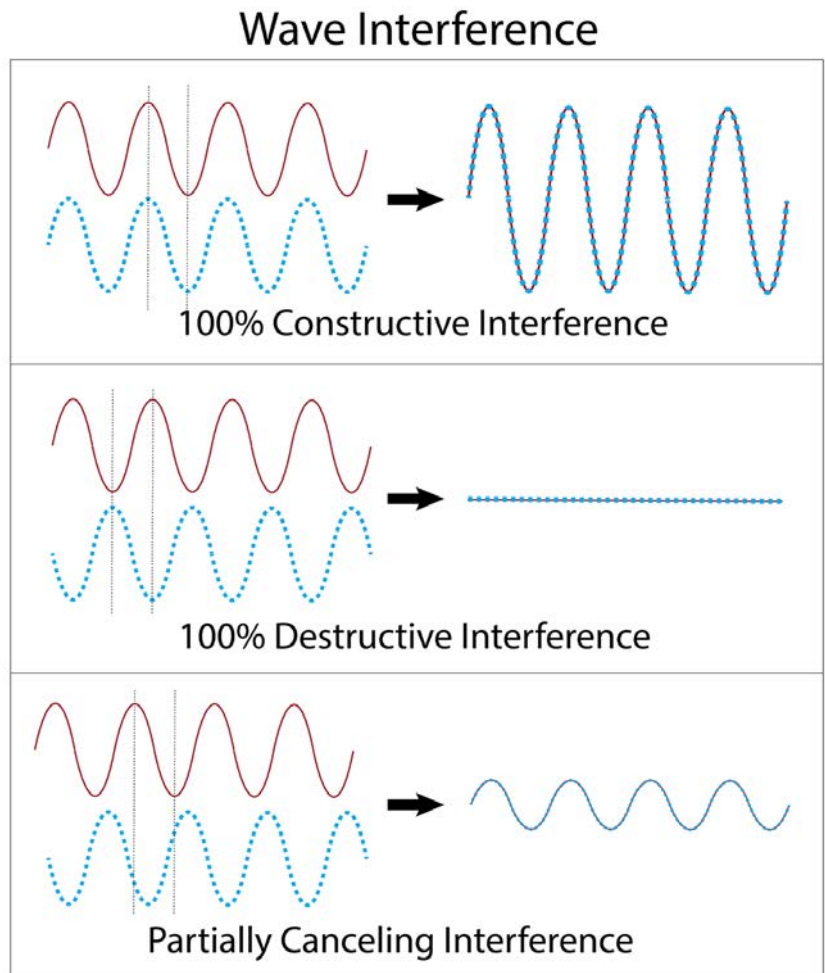
Continued...

VHF Multipath: More Than One Signal Path, continued

The figure below shows how two sinusoids can combine. In the upper diagram, the two waves are in phase and add together to create an even stronger waveform. In the middle diagram, the worst case is shown with the waveforms 180 degrees out of phase, causing them to cancel out when combined. Any phase difference other than 180 degrees causes partial effects, including partial signal cancellation as shown in the lower diagram. In the general case, we may have multiple signals of various amplitudes arriving at different times (phases), causing complex interactions. The net result is multipath distortion of the recovered signal, usually manifesting as garbled or distorted audio to variable degrees of severity.

Time and Space: These multiple paths can vary with time, due to changes in atmospheric conditions. You can be sitting at home listening on your 2-meter FM transceiver, and another station's signal varies in strength and distortion. An even more pronounced variation happens when you move your receive antenna a short distance (some fraction of a wavelength). Doing so may move you from an area of destructive interference to one of constructive interference. This is easier to do with a portable station such as a handheld transceiver or mobile unit in a vehicle, and not so easy with a fixed base-station antenna.

Experienced VHF operators change their position slightly, searching for a "hot spot" to improve their reception. These interference patterns tend to set up based on the wavelength of the signal, with maximum constructive interference (a hot spot) about 180 degrees away from maximum deconstructive interference (a bad spot). For the 2-meter band, the wavelength of a radio signal is, well, about 2 meters long, so moving 180 degrees corresponds to 1 meter (or about three feet). Sometimes, when signals are weak on 2 meters, you'll hear the suggestion of "move a few feet and try again." Note that it only takes about 3 nsec for a radio signal to propagate 1 meter, so the time shift between the two signals can be very small.



When two signals combine, waveform amplitudes sum together. There can be constructive interference, destructive interference, or partial effects including cancelling interference. The upper diagram shows perfectly constructive interference, boosting the amplitude of the combined signal. The center diagram depicts perfectly cancelling interference, 180-degree phase difference between the two waves. The lower diagram depicts a partially cancelling interference, diminishing the amplitude of the resultant combined signal.

Continued...

VHF Multipath: More Than One Signal Path, continued

Confusion: Multipath propagation can be quite confusing. Here's a real-life story of three radio amateurs communicating using a 2-meter repeater located within a mountainous area. (We'll call these hams Paul, Sally, and Leroy.) The terrain in the area caused significant multipath distortion between the hams and the repeater and between each other. This resulted in Paul's signal sounding distorted going into the repeater, which was heard as a distorted signal coming from the repeater. At first, Sally and Leroy thought Paul's signal had a problem and perhaps his radio was malfunctioning. While diagnosing the problem, Sally listened to Paul's signal directly on the repeater input (simplex) and found that his signal sounded just fine. This made them wonder if the repeater was having a problem. But no, Sally and Leroy's signals were coming through the repeater without a problem. Leroy also tuned to the repeater input frequency to hear Paul direct but he found that Paul's signal still sounded distorted. However, the distortion was not quite the same...the amount of distortion was less and the tone of it just sounded different.

What was going on? The path from Paul's radio to the repeater was distorted due to multipath distortion. The repeater just repeats this distorted signal, so Sally and Leroy heard a distorted signal from Paul. When Sally listened to Paul's signal directly, there was no multipath and the signal sounded fine. But when Leroy listened to Paul directly, that path also had multipath distortion with somewhat different characteristics, which really confused things.

Dealing With Multipath: So what can we do about this problem? How do we deal with multipath distortion? Here are a few tricks and tips to consider.

1. First off, be aware that multipath effects exist and can cause on-the-air distortion in radio signals. So don't assume the other station has a transmitter problem.
2. As mentioned earlier, moving a few feet (depending on wavelength) can cause a large change in signal amplitude and quality. For example, the wavelength for 2 meters is about 6 feet, so moving about one-quarter to one-half wavelength (1.5 to 3 feet) can make a big difference. Or not.
3. Using a directional antenna can really help as it tends to focus on one signal path and attenuate others. Point the antenna for best reception, and it may not be obvious which direction will be best.
4. Along those same lines, be aware that the best signal path may not be in the apparent direction as signals bounce off mountains or structures.

A key takeaway is to move around a bit to try to optimize your signal strength. It is not totally predictable, so try something and see what happens. The same thing applies to pointing your directional antenna: the "obvious" heading may not be the best heading. Try something and see what happens.

Wrap It Up: Multipath distortion might sound like a tech nightmare, but once you get the hang of it, it's just another quirk of the radio landscape. Whether you're tweaking your ham radio setup, boosting your Wi-Fi, or trying to catch a distant TV station, a little know-how and some trial-and-error can go a long way. So, next time your signal drops, don't despair—grab your antenna, take a few steps, and outsmart those bouncing waves.

Event Calendar

June-November 2025



WØTLM Upcoming Events

June 2025

- June 16 Monthly Meeting Tri-Lakes Chamber of Commerce Building
- June 28-29 ARRL Field Day Fox Run Park, Pavilions 4 & 5 (Sat 28th)

July 2025

- July 21 Monthly Meeting Tri-Lakes Chamber of Commerce Building
- July 26 ~~PPRAA Megafest~~ ~~Lewis Palmer High School~~ **CANCELED**

August 2025

- Aug 18 Monthly Meeting Tri-Lakes Chamber of Commerce Building

September 2025

- Sept 20 Annual Club Picnic Fox Run Park, Pavilions 4 & 5
- (Note: No regular monthly meeting; picnic replaces monthly meeting.)

October 2025

- Oct 4 Extra License Class Start Oct 4 kickoff - Nov 15 exam; Earn Extra!
- Oct 20 Monthly Meeting Tri-Lakes Chamber of Commerce Building

November 2025

- Nov 17 Monthly Meeting Tri-Lakes Chamber of Commerce Building
- Nov (TBD) WØTLM VE Session Monument Library ([Registration required](#))

Are you ready to upgrade to Amateur Extra license? Or, just want to understand more?
WØTLM has got you covered with our upcoming Extra License Class!

October 4 - November 15, 2025

Stay tuned for more information coming soon!

Got an Event for the Newsletter?

If you have a recommendation for an event to include in our newsletter, let us know. We'll add it to next months listing.

It's YOUR newsletter. Let's hear from YOU!

Email Editor



Photo of the Month

Extreme SOTA Sport!



**Extreme
SOTA!**

Are you ready for the ultimate SOTA challenge? Try Extreme SOTA Sport! OK, not really. This is an image generated by A.I. to help illustrate what **you** can do with free online image-generating A.I.

See this issue's **Just for Fun** page to learn how you can enter our **Ham Radio A.I. Image Exhibition and Contest**. Yes, it is *just for fun*, but we hope you do have some fun with it and enter your creative ham images. Anything ham radio related qualifies for entry, and our membership will vote for the best!

Got an interesting photo for the Newsletter?

If you have a fun, historical, or just interesting image to include in our newsletter, let us know. Technology, people, situations, gear, just about anything.

It's YOUR newsletter. Let's hear from YOU!

Email Editor



Operating Tips

Stu WØSTU



WØTLM Field Day Operating (June 28th)

As Bob WØHTH mentioned in *From the Prez*, ARRL Field Day is coming up this month. Our WØTLM club event will be held Saturday, June 28, at Fox Run Park pavilions 4 & 5. In addition to the camaraderie and bar-b-que, there will be loads of stations on the HF bands attempting to contact one another. It will be hectic and chaotic and a little confusing for the uninitiated. However, Field Day operations offer every club member a chance to get on the HF bands and make some SSB phone contacts. Let's review how this is done for Field Day and get you a little better prepared to try your hand at Field Day operating.

Calling CQ vs. Answering CQ: Typically, phone QSOs on the HF bands will be initiated by one station calling CQ and another station (or stations) answering the CQ call. You can make a Field Day contact either calling or answering. Let's review good amateur practice for each end of the CQ connection.

Calling CQ: When calling CQ using SSB phone on a normal day when the HF bands may not be very busy, an operator tends to stretch out a CQ call in time so that another operator dialing through the band has a good chance of stumbling upon the call. The CQ call may be repetitive, such as:

"CQ CQ CQ, WØTLM calling CQ 20 meters, CQ CQ CQ, whiskey zero tango lima mike calling CQ and standing by."

However, on Field Day the density of operators on a band will be great, and it will be much easier to snag surfing operators. As such, your CQ call can likely be substantially briefer, perhaps just, *"CQ Field Day, whiskey zero tango lima mike."*

Pile Up: Further, once you set up on a (sort of) open frequency to call CQ and snag a contact or two, you might attract a number of other stations seeking to respond to you. These other stations will wait for the current QSO to end, and then they will issue their call sign on the air in the hope that you will hear and complete an exchange with them. When multiple stations are calling for your attention simultaneously, this is called a *pile up*. When you have a pile up, you need to simply reply to one station that you can pull out of the cacophony of calls, stating the call sign or any portion of it that you can discern. For instance, among multiple overlapping calls perhaps you hear a station starting with K2... You might reply succinctly, "The K2 station, K2 go ahead." The standard Field Day information exchange with the K2 station proceeds, and at the end of the exchange you transmit, "QRZ?" (*QR zed?*), indicating that you are ready for the next station or stations to call. Rinse and repeat as efficiently as possible for as long as you can keep it up. Fun!

Continued...

WØTLM Field Day Operating (June 28th), continued

Answering CQ: You probably have surmised how to answer a CQ call, or a QRZ call that you hear from another station. Simply transmit your call sign immediately following the CQ or QRZ call by the desired station and hope to be recognized. You may have to do this several times to make a contact with another station in a pile up. Be obstinate!

The Field Day Exchange: The ARRL Field Day rules require the following information exchange in a qualified QSO.

1. Call sign
2. Field Day Operating Class
3. ARRL RAC Section

Confirm the exchange information on the day of the event with our club Field Day coordinators, as the exchange specifics will vary with the quantity and type of stations participating in our club operation. A typical exchange for our club members operating a club station will be:

1. Whiskey Zero Tango Lima Mike (WØTLM)
2. 2A (Indicating our group is using 2 stations and using battery power.)
3. Charlie Oscar (CO - Colorado RAC Section)



Logan KFØMCB works Field Day contacts, June 2024.
(Photo by Steve WGØAT)

You will hear call signs, operating class, and RAC section transmitted rapidly in sequence over and over again. If you are helping to log contacts, be sure you distinguish and accurately receive these exchange components for the log entry.

Example: Let's pull this all together in an example contact with a station operating from the North Okaloosa Amateur Radio Club in the panhandle of Florida, W4AAZ. Suppose the W4AAZ operator has a pile up ongoing and just wrapped up an exchange.

W4AAZ:	"QRZ?"
WØTLM:	"Whiskey zero tango lima mike"
W4AAZ:	"Station ending lima mike?"
WØTLM:	"Whiskey zero tango lima mike"
W4AAZ:	"Copy WØTLM, please copy four alpha, november foxtrot lima" (4A NFL)
WØTLM:	"QSL, please copy my two alpha, charlie oscar (CO)" (2A CO)
W4AAZ:	"Roger, thanks for Colorado, 73. QRZ?"

It's a rapid fire exchange, but if you understand the components and practice a bit you will be making contacts in no time like an old greybeard! Good luck with your Field Day contacts, and I hope you will give it a try. It's a lot of fun!

[ARRL Field Day Rules](#)

[ARRL RAC Sections and Abbreviations](#)

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-- Stu WØSTU

Guest Article

Elijah KAØELI



Getting Young People Involved in Ham Radio

Often, I think people wonder “How can we get younger people involved in radio?”

As a club member often referred to as the “younger people,” I can provide some insight (I hope). First off, I'll lay out a clear path for this article. We'll first cover my observations, then go onto topics such as how you get people involved, what needs to be done to keep things available to new and younger people, and how do you get more people licensed?

My observations: I have been licensed since November 2024. I'm new, I know. I was 13 when I got that my Technician license, and 14 now. I've now earned my general license as well, and I love being on HF. Overall, It's been amazing to be able to learn this. I'm not just doing random things, I'm actually focused on this hobby and I have seen myself become slightly less introverted (though I wouldn't say I'm quite fully an introvert) as well as more confident. I'll go over a few things I've noticed and how we can try to get more younger people into radio.

- **Radio is awesome!** I've been enjoying anything radio, from HF conversations to VHF repeater rag chewing. It's just so much fun to do anything from talking to some more experimental things such as digital modes and bouncing all that.
- **Radio isn't just one hobby.** I know, I know, everyone says it. The hobby of a thousand hobbies. But I never really knew how true that was. And man, it's a LOT of different things. Electrical engineering, soldering, circuitry, I could go on. But nobody wanted to read this article to see me list off hobbies, so I'll stop.
- **The people are what make it awesome.** Sure, radio is super cool on it's own. But, the people around us are what make it amazing. Without people that helped me into this hobby, I'd never have been interested in this. From club members, Elmers, to friends I meet on the radio - you all are great.
- **We need younger people in radio.** Not to say anyone is old, but we need to be ready to hand off to the younger generations so that this hobby does not die.

How do we get new amateurs? How do we get younger people involved?

- **Be there to help them.** Educate them, explain how to operate it, and help them with equipment. If you've got an extra 50 watt mobile dual bander collecting dust, hand it off to a new friend if you can. That's what happened to me, and without it, I wouldn't be interested in HF.

Continued...

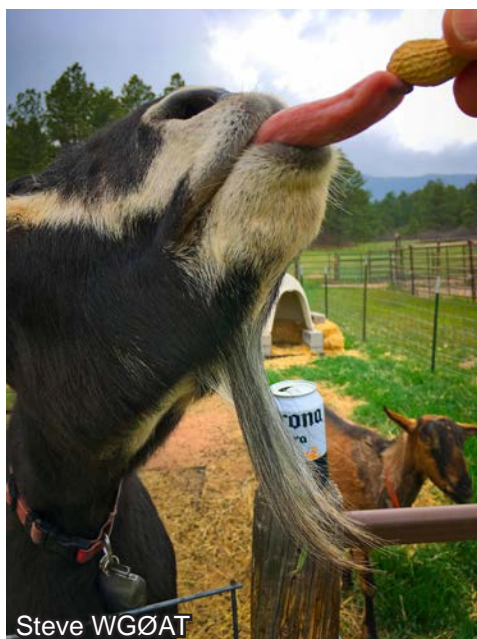
Getting Young People Involved in Ham Radio, continued

- **Make resources available to new people.** There needs to be good mentors, kind people, and cheaper equipment. If we can provide things cheap such as good antennas, homemade radios, and anything of the type, that'll open tons of doors. And as for the rest, the words of Woody from Toy Story, "So play nice." Just play nice with the newer folks and give them good direction. Like a boy scout without a compass, they'll be lost without you.
- **How do you get more people licensed?** Teach them and test them. Give them access to a class (hey, like our WØTLM classes!) and have a VE Team come by for a test session at the end. Give them a resource such as Ham Radio School, Ham Radio Prep, HamStudy.org, and others, and walk them through it with skilled instructors.

And that's the best way I can think of.

73

-- Elijah KAØELI



Steve WGØAT



GrokAI

*Sign up today to serve as Tri-Lakes Net Control. We can all do our part!
It's easy. It's fun. It's rewarding. It will help to hone your communications skills.*

[Click here to sign up at the WØTLM website.](#)

Want to write a piece for the Newsletter?

Share your knowledge or your story with your clubmates!
Write a guest article for the Newsletter.

It's YOUR newsletter. Let's hear from YOU!

Email Editor



Member Comments



Reply comments on how to improve the weekly Tri-Lakes Net:

We've been using the 'question of the night' format for the Tri-Lakes net for well over a decade, and it has served well. It is a particularly friendly format for new hams from our Technician class offerings each year. But, **perhaps it is time to mix it up a bit and try some alternative formats for the net.** We could keep the NCO-chosen question night in the mix, but some other ideas might include: 1) ham radio educational topic discussion, 2) emergency communications / tactical net training and practice, or 3) emergency preparedness topic discussion. We could inject one or more of these, or other ideas, in a rotation through the weeks. I'll bet there are club members who would enjoy the opportunity to lead some of these types of discussions as NCO, and I'll bet there are even more members who would love the opportunity to learn more this way. If you're in either of those camps, let's hear from you.

-- Stu WØSTU

Use the net to **tap into expertise in the club** and **help members learn about topics of interest.** Perhaps have a **focus topic of the month**, where a subset of members are prepared to answer participant questions about the topic. For example, if the topic is antennas, have one or more knowledgeable members who can address most questions about antenna basics provide an introduction to the topic and then answer participant questions. One week it's VHF/UHF antennas, the next week is HF antennas, and the third week is directional antennas. No round-robin format, but a controlled net with the NCO maintaining orderly traffic. The topic expert(s) would not be the NCO, but rather a participating station(s). A quick survey of member interests at the monthly meetings could help to determine the topics. It would require a little more coordination probably, but I think it would be worth the effort to make the net serve a grander function for our club.

-- Dan NØOLD

Randomly asking for NCO volunteers (often at the last minute) is not the best approach. I think its smarter to **have a list of NCOs you can count on** and that are trained & competent. Create a rolling schedule about 3 to 4 weeks in advance. Then you can always add in some new folks to build a larger team and provide the opportunity to build skills. Also, I would guard against letting the net run too long. That will chase people off.

-- Bob KØNR

Got a comment for the Newsletter?

Share your thoughts with your clubmates about anything club, radio, or technology related! Drop your comments on the Newsletter.

It's YOUR newsletter. Let's hear from YOU!



Just for Fun

Ham AI Image Exhibition and Contest!



**Enter your ham radio-related A.I. image creations
in our club exhibition and contest!**

What is A.I. imagery? Artificial Intelligence platforms can transform textual descriptions into images. Practically any image concept can be generated by A.I.s with varying degrees of accuracy and input effort. A.I. art is creative imagery generated through your text input to an A.I. platform.

Examples: Here are a few examples of ham radio-related A.I. images to give you an sense of what can be done with the various free online A.I. image creating platforms. Image styles may be realistic, cartoonish, anime' style, and others. You'll find other examples sprinkled around this newsletter issue, such as the exciting *JPOTA* promotion and the *Extreme SOTA* image.



Exhibit / Contest Rules and Procedures:

- Any club members may enter up to three images of any style created with any A.I. platform.
- Entries must have a ham radio-related theme and be in good taste.
- Entries must include the A.I. platform used and the specific text entered to create the image.
- Entries must be uniquely created by the club member using A.I. and not a replication.
- Minor cropping, editing, or photoshopping of A.I. generated images is allowed.
- Entry deadline is midnight June 30, 2025.

Entries will be published anonymously in the July newsletter along with a Google Survey link by which club members may vote for their favorite creations in these categories:

- Realistic
- Fantasy
- Cartoon / Anime'
- Best of Show

Results will be published and member creators revealed in the August newsletter.

Links to popular A.I. platforms and the contest entry instructions follow on the next page.

Just for Fun

Ham AI Image Exhibition and Contest!



Enter your ham radio-related A.I. image creations today!
Have some fun and send in your fantastic images.

Entry Instructions:

- Save your A.I. image creation as a .jpg or .png image file.
- Provide the image file a name that indicates the title of the entry.
- Attach your entries to an email to Stu WØSTU: stu.turner@comcast.net
- In the body of the email provide the following required information:
 - A title for each entry, maximum 3 entry images per club member.
 - The A.I. platform used for each entry.
 - The specific text input used to create each entry.
 - Clearly identify yourself using full name and call sign.

Email Entry

Common A.I. Platform Links:

Any A.I. platform may be used to create entries, but here are some common (and free) platforms that you may want to try. Some require account creation, and some limit the number of inputs or iterations allowed in one online session or time window.

- OpenArt AI: <https://openart.ai>
- Aitubo Image Generator: <https://aitubo.ai>
- Adobe Firefly: <https://firefly.adobe.com/>
- Chat GPT: <https://chatgpt.com>
- Bing Image Creator: <https://www.bing.com/images/create>
- Grok: <https://grok.com>
- Craiyon: <https://www.craiyon.com>
- Canva AI: <https://www.canva.com/ai-image-generator/>
- NightCafe: <https://creator.nightcafe.studio>
- DeepAI: <https://deepai.org/>



Images from Hamvention 2025:



Queue for morning entry. (KØEZE)



Saturday lunch. (KØNR)



One of the five exhibit halls. (KØEZE)



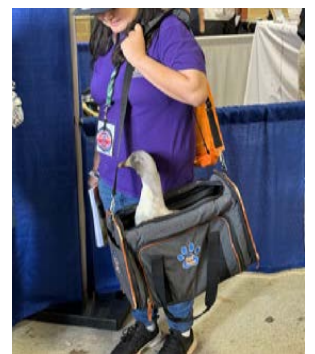
The fancy new Yaesu FTX-1 transceiver. (KØNR)



Some sweet Begali CW keys to try out. (KØNR)



A nice portable station setup. (KØEZE)



A rubber duck and a real duck! (WØHTH)

Images from Endurance Ride 2025: Photos by Tricia KØTRD

← Linda's post

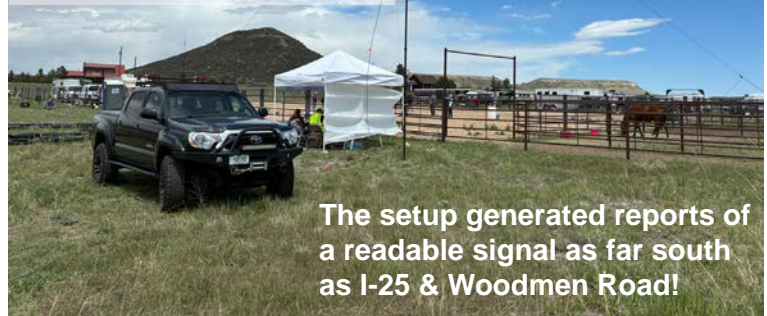
 **The Greenland Endurance Ride**
Top contributor Linda Browneller · 2d ·

Patricia Olson and the 30 radio volunteers were spectacular! Thank you for keeping track of all the teams!



Twenty-nine WØTLM volunteers provided communications support for the Greenland Endurance Ride equestrian event May 17-18. It was a very successful and fun operation, with volunteers working in shifts over the two days.

The club's portable repeater operated at 25 watts with a 33' mast for the UHF antenna connected with LMR400 cable. Power was provided by a 98 A-H deep-cycle marine battery.



On Saturday we had 19 riders in the 50-mile race, 20 in the 25-mile race, and 18 introductory riders. Sunday we monitored 21 total horse/rider teams.



Admin & Info

WØTLM Officers & Appointees, Etc.



President: Bob Fenkel WØHTH
Vice President: Loren Andersen KEØHZ
Secretary/Treasurer: Barb Evans KØBE

bobthebearguy@gmail.com
landerso2000@gmail.com
k0be.bje@gmail.com

Leadership Committee:

- Bob Fenkel WØHTH
- Loren Andersen KEØHZ
- Barb Evans KØBE
- Larry Kral NØAMP
- Hans Post-Uiterweer WØPU
- Stu Turner WØSTU
- Stephen Moraco KZØQ
- Tricia Olson

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tricia4wd@gmail.com

Education Program Cmte: [Larry NØAMP](#) & [Hans WØPU](#)
License Class Directors: [Stu Turner WØSTU](#) & [Bob Witte KØNR](#)
Newsletter Editor: [Melissa KFØPLU](#) - *We need someone!* [Get info.](#)
Community Events Director: [Tricia Olson KØTRD](#)

Repeaters:

WØTLM-R

447.725 MHz
 -5.0 MHz offset
 100.0 Hz CTCSS

NØXLF-R

147.075 MHz
 +0.6 MHz offset
 131.8 Hz CTCSS

Colorado Connection KBØVJJ

145.130 MHz
 -0.6 MHz offset
 88.5 CTCSS

Take Your License Exam!

Next WØTLM Volunteer Examiner Sessions:

August 16, 2025 10:30 am
 Monument Library Meeting Room

All license level exams offered,
 Technician, General, & Extra.
 Pre-registration is required.

[Register for a WØTLM Session](#)

[PPRAA VE Session Listing](#), Colorado Springs
 (every 2nd Saturday of month).

Net Control Officers:

June 2: Need NCO
June 9: Need NCO
June 23: Need NCO
Jun 30: Need NCO

Volunteer today to be the NCO for an upcoming net! It's easy!

[Sign Me Up
for NCO!](#)

[Read the Easy
NCO Script](#)

King Sooper Fundraising!

Earn easy \$\$\$ for WØTLM!

Connect your King Soopers card to the [Community Rewards Program](#) and select our club as the nonprofit organization. The club will receive quarterly payments based on purchases. It costs you nothing and is a wonderful benefit for the club. Log into your account (tied to your King Soopers Card) or create an account if needed. Select *Community Rewards Program*, Type in *Tri-Lakes Monument Radio Association* (or use our account number, KM150). Press "Enroll" and you will receive a confirmation. It is that easy! Please sign up today to benefit WØTLM!



Truly macho hams wear their
 speaker/mics directly on their
 skin

Tri-Lakes
 Monument
 Radio Association,
 WØTLM
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 All rights reserved



Admin & Info

Local Education Events & Resources



Digital Library of Amateur Radio & Communications (DLARC)

For anyone who is not familiar with [DLARC](#)... you really should check it out:
Free Texts : Free Download, Borrow and Streaming : Internet Archive

DLARC is a library of materials and collections related to amateur radio and early communications. It is funded by a grant from Amateur Radio Digital Communications, a private foundation, to create a digital library that documents, preserves, and provides open access to the history of the amateur radio community.

This free resource combines archived digitized print materials, born-digital content, websites, oral histories, personal collections, and other related records and publications. The goals of DLARC are both to document the history of amateur radio and to provide freely available educational resources for researchers, students, and the general public. -- 73 Bill WTODX

WØTLM Radio Gear Loans

Portable Station: Icom IC-7300 HF+6m and Kenwood TM-V71A VHF/UHF transceiver. Both mounted in Gator case. Coax, vertical antenna available for 10 - 80 meter bands. Optional large telescoping mast.
[Email WØSTU](#) for queries.



Other small items and tools available.
[Contact Chip KØCHP](#) for queries.

WØTLM Presentations

Our WØTLM website features a tremendous array of presentations on numerous subjects. If you find one that you need more info on just contact the Elmering crew: w0tlm-elmer@w0tlm.org

RM HAM University

Check out the offerings and sign up [here](#).
June 2025 and beyond: Programs TBD.

Visit the [RM Ham U website](#) for past presentations. They have an abundance of information shared amongst the ham community!

There are no stupid questions!

The WØTLM Elmer Team has the answers. Our volunteer Elmers will help you with anything ham radio related. If you have more than a question or two and would like to be paired with a friendly Elmer, please let us know and we'll connect you. Email us: w0tlm-elmer@w0tlm.org

Solar Activity

Solar Flare Alerts: Sign up for [Space Weather Alerts](#) and get instant text notifications when solar flares are underway. There are numerous sites and ways to check and see where and what the chances are of that great contact. One to check is [W5MMW solar site](#). Check it out. Also these sites provides solar data: [NØNBH](#) [SpaceWeather.com](#)

Upcoming Events & Hamfests

~~7/26/2025 PPRAA Megafest~~ Lewis Palmer High School
Megafest 2025 has been canceled by PPRAA.

08/24/2025 [RMHam Summer Swapfest](#) Adams County Fairgrounds, Brighton, CO.

09/19-21/2025 [Duke City Hamfest](#), Albuquerque, NM

10/05/2025 [BARCFest](#) Boulder County Fairgrounds, Longmont, CO.

10/23-26/2025 [ARRL Rocky Mountain Division Convention](#).
HamCon Colorado 2025. Grand Junction, CO.
See the event flyer on the next page and sign up today!

Admin & Info

Local Education Events & Resources



HamCon Colorado 2025

October 23-26, 2025 - Grand Junction, CO

ARRL Rocky Mountain Division Convention



Whether you're a seasoned ham operator, a curious newcomer, or a tech enthusiast, this is the event you won't want to miss.

Date: October 23-26, 2025

Location: Hilton DoubleTree - Grand Junction

Learn More: <https://www.hamconcolorado.com>

Why Attend?

- **Inspiring Keynotes** – Hear from industry leaders and innovators in amateur radio.
- **Hands-On Workshops** – Learn new skills, build kits, and get on the air with expert guidance.
- **Exhibits and Vendors** – Explore the latest equipment, gadgets, and technologies from top brands.
- **Networking Opportunities** – Connect with fellow radio enthusiasts and clubs.
- **Special Events** – Participate in contests, prize drawings, and more!
- **DX University** – Learn some of the biggest “trade secrets” from the best DXers in the business.



Who Should Attend?

- Amateur radio operators (all levels)
- Emergency communication teams
- Electronics and tech hobbyists
- Families and anyone curious about amateur radio

Mark Your Calendar and Register Today! Early Registration is only \$25!

Visit www.hamconcolorado.com for event updates, registration details, and hotel accommodations. Don't miss out—HamCon Colorado 2025 is your gateway to the world of amateur radio! Follow us on Facebook for the latest news and announcements.



Call for Papers and Forum Speakers

Passionate about amateur radio? Submit your proposal to speak at HamCon and share your expertise with the community.

About the Event: HamCon Colorado is one of the premier gatherings for amateur radio enthusiasts, featuring workshops, exhibitions, networking, and forums. Whether you're an experienced operator or a beginner-friendly mentor, contribute to our community's growth. We will also be producing a professional proceedings document to publish your works!

Forum Topics of Interest

We welcome a wide range of topics, including but not limited to:

- Emerging Technologies in Amateur Radio
- Antenna Design and Optimization
- Digital Modes and Software Tools
- Emergency Communications and Preparedness
- Portable and QRP Operation Techniques
- Satellite Communication and Space Exploration
- DIY Projects and Homebrewing Equipment
- Licensing, Operating Tips, and Contesting Strategies
- Youth Engagement and Education in Ham Radio

Submission Guidelines

Deadline for Submissions of Forums: September 23, 2025

Deadline for Submissions for Publication: August 31, 2025

Proposals should include the following information:

- Title of Presentation
- Presenter Name(s) and Contact Information
- Brief Bio of Presenter(s)
- Abstract (150–250 words) outlining your topic and its relevance
- Audio/Visual and Technical Requirements



We look forward to hearing your ideas and welcoming you as a speaker at the HamCon Colorado, Rocky Mountain Division Convention!

Send your proposals via our Indico tool at: <https://forum.hamconcolorado.com>

You will need to create an account to be allowed to post.

Questions? For more information, visit our website: <https://www.hamconcolorado.com>

Or contact us directly at forum@hamconcolorado.com

Classified Ads

Member Gear for Sale



LDG AT600 ProII Tuner
with ICOM cable, in original box
<https://www.ldgelectronics.com/at-600-proii>
\$275.00
Contact Rex WDØAJG wd0ajg@gmail.com



ICOM AT180 Auto Tuner
with ICOM cable, in original box
<https://www.icomjapan.com/lineup/options/AT-180/>
\$250.00
Contact Rex WDØAJG wd0ajg@gmail.com



Dell Docking Station for XPS (Micro USB power)
WD19S180W, includes the power brick (not shown)
Dual monitor, USB3, network, etc.
Make Offer
Contact Rex WDØAJG wd0ajg@gmail.com



Samsung 24" monitor - 1920 x 1080, used, on stand
\$35
Contact Rex WDØAJG wd0ajg@gmail.com



Got an advertisement for the Newsletter?

Provide one or more photos of the item (.jpg or .png preferred).
Provide a complete description of the item.
Include a characterization of the condition of the item.
Include an asking price, indicate whether negotiable.
Ads expire monthly and will not be repeated without a resubmission.

It's YOUR newsletter. Let's hear from YOU!

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