

# Tri-Lakes Monument Radio Association

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



## Newsletter February 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



## We're Getting Better (Thanks to you!)

Can you remember all the preparation you did 25 years ago? Yup, we survived Y2K. Many of us took that opportunity to get started or more involved in Amateur Radio. Look at all the fun we have had since then!

We sure had fun in the club this January. Our members were busy with Tech Day and Winter Field Day. If you were unable to attend Tech Day, you sure missed out on a great learning experience. Well over 30 attendees were able to construct jumper cables for electronic and radio use and take them home. Yes, that was "hands on" building cables using Anderson Powerpoles, and crimping connectors on coax for their antennas. We even did some soldering and didn't set fire to the Black Forest Fire Headquarters! What a relief.

Many thanks go out to the Black Forest Fire team for allowing us to use their training room. A special thanks goes out to Loren KEØHZ and Hans WØPU for spearheading the program. More importantly to Emil AEØZC, Dan NØOLD and Tim WØOOD for stepping up and volunteering for the hands-on instruction. Without their assistance this program would not have been such a success. Before Tech Day started, we had a VE session and minted 7 new Technician, 2 General, and 1 Extra Licensees. Congratulations to all!

Continued...



*WØTLM club members hone their skills in fabricating coaxial cables at Tech Day, crimping and soldering connectors. (Photo by Dan NØOLD)*



## Hot Announcements

- **License Class:** Kickoff session Sat, 1 March 1:00-4:00 PM. Earn FCC Technician or General license. Online & in-person sessions. Learn more and register at <https://w0t1m.com/radio-classes>
- **February Monthly Meeting:** Mon, 17 Feb 06:00 PM - 09:00 PM. Doors open for Connect Time from 6:00 PM to 7:00 PM. Come meet other members, socialize, & have fun!  
**Zoom simulcast link** for the meeting: <https://w0t1m.org/w0t1m-club-meeting> You will be placed in a waiting room until the host activates your entry to the meeting. Please display name & call sign.

## From the Prez, continued

What about Winter Field Day? Well, I braved the cold weather...by operating from home. But we did have a few hardy souls venture outside for operations in a park or from some undisclosed nature locations. If you have a story or photos of your activation, please submit them to [Melissa KFØPLU](#) for the newsletter.

If you are interested in obtaining or upgrading your license, we will be conducting our Spring License Class beginning March 1. This is the opportunity for you to get that General Class License. Then you can experience more band privileges and really make that leap in the hobby. That General Class ticket will really get you moving down the road of this hobby of 1ØØØ hobbies. See page 17 of this newsletter for more info and our [website](#) for registering.

I would also like to recognize and pass along our club's appreciation to one of our members. Brett Bixler KFØP-MV, the owner of Mission Coffee Roasters. He is providing our Leadership Team with availability of the Conference Room located at the café at a greatly reduced rate. Please stop by Mission Coffee Roasters located at 11641 Ridgeline Dr, Suite 17Ø. That's located just off Voyager and Ridgeline. Or visit via the internet at <https://www.missioncoffeeroasters.com/>. Great coffee and a nice quiet place for hams to chat.

At the January meeting we mentioned that we are in the process of obtaining an official "Letter of Certification" from the IRS. As part of this process, we took the opportunity to update our club's constitution. The proposed draft is posted on our website under the "[About Us](#)" tab. Please feel free to review the document as we will vote on approval and adoption at the February 17 meeting.

Speaking of the February meeting, our guest speaker, John Bloodgood KDØSFY, will give a presentation on timing and frequency standards. It will focus on what that means for hams and how the [US Naval Observatory](#), [WWV](#), and [GPS](#) fit into things.

We have a great club, yet we still want to make it better. And with **your** help, we are succeeding! Please consider contributing your time and talents to help make WØTLM the best it can be.

73

-- Bob WØHTH, President



*We didn't burn down the fire station with our soldering activities at Tech Day, but we made some fine jumper cables! (Photo by Dan NØOLD)*

## 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-Knowledgey

## Loren KEØHZ



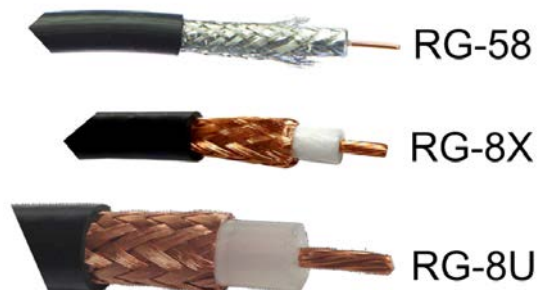
## Know Your Coaxial Cable

This month's installment of Tech-Knowledgey is inspired by one of the topics at the recent WØTLM Tech Day. We discussed selecting an appropriate coax cable for our radio installations and quite a few attendees terminated a length of RG-8X with PL-259 crimp-on connectors. It was suggested that for a short, interconnecting cable in our shacks RG-8X is perfectly adequate for frequencies from HF up to and including the 70 cm UHF band. Why is this so? And what about longer feedlines that run outdoors to our antennas?

Both Bob, KØNR and Stu, WØSTU, club members of ours, have blogged about this on their websites:

- [Hey, Which Coaxial Cable Should I Use?](#) - Bob KØNR, Ham Radio School article
- [Coaxial Loss](#) - Stu WØSTU, Ham Radio School article
- [Is RG-8X the General Purpose Coaxial Cable?](#) - Bob KØNR, The KØNR Radio Site

Let's delve a little deeper into this topic and consider several factors that need to be considered. Receiving and transmitted signal performance is always a consideration. We want to be able to hear and be heard when operating. Attenuation in the feedline will affect both, but how much? Cable manufacturers specify the attenuation loss of their coax at varying frequencies. Among quality suppliers the loss factor should be very consistent for the same type of cable. Consider this factor to be an area where "you get what you pay for". Beware of very low-cost cable when shopping online. We can quite easily calculate the loss in our cables with online tools. I frequently use the [KV5R Coax Loss Calculator](#) that calculates loss in dB, Watts, and Loss Percentage. The question is, what is the real impact of the loss?



*Comparison of three common coaxial cable types.*

I asked ChatGPT, "In an audio signal what decibel change can be detected in the normal ear?" It replied that for most people, the just-noticeable difference (JND) in sound intensity is typically about 1 decibel (dB) under normal listening conditions. At lower sound levels the JND might be closer to 3 dB. We hams are frequently listening in less than ideal conditions so 3 dB is probably a good number. A 3 dB reduction in power is a 50% reduction in power or 1 S-unit. (You may be thinking I just made an error because you've heard that an S-unit is 6 dB. That's true on your S-meter because that is measuring voltage and a 6 dB reduction or increase in voltage is equivalent to a 3 dB change in power. Perhaps this topic will be a future Tech-Knowledgey article.)

Continued...

## Know Your Coaxial Cable, continued

In other words, in less than an ideal listening environment, the power of the incoming signal needs to be cut in half to notice a difference. I'm not suggesting that the AM modulated SSB signal input to your receiver is exactly linear with the relative audio output, but this roughly illustrates the effect of the power loss. The point being, a 3 dB loss is not desirable but if you are calculating a lower loss than that in your feedline it may not be the end of the world. Now, it may just be a cost tradeoff.

Back to RG-8X for a moment... Using the KV5R calculator, a 100-foot length at 28 MHz (the lossiest HF band) has a loss of 1.676 dB. This is a power loss of 32%. This may seem like a lot, but as we just learned that may be an undetectable difference for an SSB QSO an S unit or more above the noise floor. It could be the difference between hearing or not hearing at all that rare DX just barely out of the noise (or not)!

Parameters:			Results:		
Line Type:	Belden 9258 RG-8X		Matched Loss:	1.584	dB
Line Length:	100	<input checked="" type="radio"/> Feet <input type="radio"/> Meters	SWR Loss:	0.093	dB
Frequency:	28	MHz	Total Loss:	1.676	dB
Load SWR:	1.5	:1	Power Out:	67.975	Watts
Power In:	100	Watts	Power Loss:	32	%
<input type="button" value="Calculate"/> before using ERP Calc.					

*The KV5R calculation of power loss in RG-8X per 100 feet of cable at 28 MHz and with 1.5 SWR.*

If your feedline length is longer yet you may very well want to consider a lower loss cable such as LMR400. If you are feeding a UHF antenna with 100 ft of RG-8x the loss is 8.3 dB or 85% of the signal. If your transmitter is putting out 50 watts, you are delivering about 7.4 watts to the antenna. RG-8x is not a good option for this application. A 10 ft RG-8x jumper connecting your HF rig's output to a coax switch in your shack, has a loss of 0.171 dB or a 4% loss of power. This is pretty insignificant. So what's the point? It's not hard to characterize your system be it already installed or in a planning stage. Take the time to do the following:

- Determine the power handling capability needed by the feedline. If you're thinking about adding a power amplifier make sure the coax is rated for it.
- Consider the environment for the coax. Will it be out in the open or buried in the ground? Some coax is rated for direct burial, others are not and must be protected.
- Consider the bands that you will operate on using this feedline. Calculate the loss based on frequency and length of run.
- Consider your operating goals. It can be quite different if you are satisfied with rag chewing with friends or checking in to a regular net rather than chasing DX Century Club or contest operating.

Bottom line is that there are no hard, fast rules about choosing your coax. As we've shown, you don't have to go out and buy the lowest loss, most expensive coax for every installation. You may be able to save some money to allocate to your antenna! 73

-- Loren KEØHZ

# Event Calendar

## Feb-July 2025



### WØTLM Upcoming Events

#### February 2025

- Feb 17                      Monthly Meeting                      Tri-Lakes Chamber of Commerce Building

#### March 2025

- Mar 1                      License Class Kickoff                      Woodmoor Barn
- Mar 17                      Monthly Meeting                      Tri-Lakes Chamber of Commerce Building
- Mar 29                      VE Session                      Monument Library

#### April 2025

- Apr 5                      License Class GOTA                      Woodmoor Barn
- Apr 21                      Monthly Meeting                      Woodmoor Barn

#### May 2025

- May 19                      Monthly Meeting                      Tri-Lakes Chamber of Commerce Building
- May 17-18                      Endurance Ride Op                      Greenland Open Space, Spruce Mt.

#### June 2025

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

#### July 2025

- July 4                      July 4 Parade Op                      Downtown Monument
- July 21                      Monthly Meeting                      Tri-Lakes Chamber of Commerce Building



## 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

## New Hams!



*Bob WØHTH congratulates two successful Technician examinees at the Tech Day 2025 VE session. Sister and brother Lily KFØSXW (13) and Luke KFØSXX (11) Buckner each earned their Technician License. Jeff NØJBB is a very proud dad! In total, 10 applicants earned or upgraded their license at the Tech Day exam session. Lily and Luke have already applied for vanity call signs, too! Congrats Lily and Luke and all the new or upgraded hams! (Photos by Dan NØOLD)*

## 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.

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Email Editor



# Operating Tips

## Steve WØAT



## Want to “climb” the airwaves? Go SOTA!

Thinking about trying Summits on the Air (SOTA)? It's very similar to Parks on the Air (POTA) from an operational point of view, but instead of driving to your destination (park), you hike to the summit, meaning you need to carry your gear with you. Thus it requires some planning and also it is recommended you test out your setup beforehand. Hiking for an hour or so to arrive on your summit is not when you want to discover, “Oops! I left the battery on the bench plugged into the charger, nuts!” So, assembling your station beforehand and making just one contact will guarantee you'll avoid this disappointment.

Hiking away from civilization also means packing the “Ten Essentials” of outdoor recreation:

- Food
- Water
- Navigation via map/compass
- Extra clothing
- Light (flashlight or headlamp)
- First aid
- Sun Protection
- Knife (multitool)
- Shelter (space blanket or emergency bivvy)
- Fire (matches/lighter)

Besides SOTA equipment, as a back-up bringing a cell phone or satellite communicator for those “just in case” scenarios. Also telling someone responsible (who cares!) where you're going and expected return time is a good practice. Now that the safety essentials are addressed, let's move on to the fun part.

First I recommend you familiarize yourself with SOTA program and rules for SOTA activations (<https://www.sota.org.uk/>). Basically you must carry your gear into the Activation Zone (AZ) and must be in the AZ within 80' vertical of summit and log the required 4-QSOs Callsigns/UTC time of contact (excluding 2-meter repeaters!).



Be well prepared for inclement conditions any time you climb to elevation.

continued...



## Go SOTA! continued

Here are some helpful Operating Tips by “DJ”/WW7D:

- Have a GOOD signal ...speak clearly (CW @ 20WPM) and be heard!
- More power means more battery (think extra weight!?)
- Best Antenna: use a Linked Dipole, EFHW versus less efficient mag loops or short loaded verticals.
- Better Signal Quality! Tip: Set this up before you Activate.
- On CW, adjust key/paddle spacing/tension.
- Cold WX option: Place paddles in fridge then test! And set up keyer memories with “CQ CQ SOTA de callsign K” same for voice!
- Make noise! You can’t catch fish if your bait isn’t in the water!
- Don’t spot yourself and wait around for Chasers. They won’t call you in the blind for fear of QRMIing you.
- When it becomes a pile-up be efficient & predictable! Avoid rag-chewing (talking about weather, views, etc) Chasers are waiting!
- Keep a “calm” sense of urgency going until the pile has slowed down!
- Have a routine. Be predictable by developing a rhythm so Chasers know when to jump in with their callsigns, Summit-to-Summits (S2S) and DX calls should always get priority!
- Avoid giving your reference number repeatedly unless requested ...it unnecessarily lengthens the exchange while other Chasers are waiting.

Also read “How to Activate a SOTA Peak”, by Guy/N7UN - excellent detail and additional references!

[How to Activate a SOTA Peak at pnw-sota.org](http://pnw-sota.org).

Have FUN! And, stay safe, dry and warm!  
73



-- Steve WGØAT



Check out [Steve WGØAT's YouTube channel](#) with loads of great videos about SOTA activations!

## Want to provide some operating tips for the Newsletter readers?

If you have some good operating tips for any type of operating, share them with your clubmates here! We can all learn from one another.

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

Email Editor



# Guest Article

## Hans WØPU



## From KFØLAX to WØPU

So, I wanted to be a ham. I took the Tech exam late in 2022, followed by General in early 2023, and finally the Extra late in 2023. All through the wonderful [Ham Radio School](#). The FCC assigned me the callsign KFØLAX, a very nice one. But in 2024 I got that strange idea that maybe a shorter callsign might help with QSOs. And also, maybe I could find a callsign, that had some relation to my name. And one that would fit in with the FCC region in which I live. As an Extra licensee, I had a choice of 1x2, 2x1 or 2x2 with certain letters, and of course 1x3 callsigns. For an overview of call sign regulations, see the FCC website linked at the end of this article.

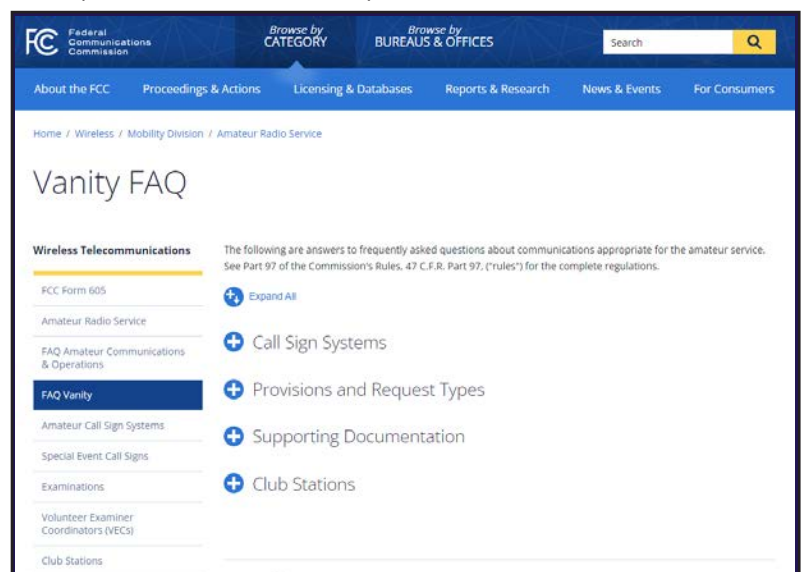
I started looking at websites to learn how to obtain a vanity call sign. In the [January WØTLM Newsletter](#), Bob KØNR contributed an article previously published at *Ham Radio School* that included information on how to find and apply for a vanity callsign. The FCC and ARRL also have information. Further, there are some websites specialized in callsign applications. I found a callsign I really liked, but it was not available until 13 January 2025. I had to wait. You can only apply for callsigns that are available on the day you submit your vanity call sign application.

Of course, I also looked at some other suitable callsigns, as there is no guarantee that you get what you ask for. The FCC has a system to award callsigns in a reasonably equitable way. It is prudent to submit several choices in order of preference in one application. After all, each application costs \$35.

On Monday, Jan 13, I applied for a vanity call sign. I put my first choice at number 1 and secondary choices at numbers 2, 3, and so on (to a maximum of 25).

It then takes a day or two for FCC information to appear publicly. I noticed that two other hams also applied for my first-choice call sign. One had submitted an application on the same day as me, but with my preferred call sign as a second choice. This person was a likely recipient of their first choice call sign, however, so they probably would not be awarded my preferred first choice. The other ham had submitted an application one day later, and that is too late. The FCC awards vanity callsigns based on

Continued...



*The FCC website has FAQs about vanity callsign applications.*

## From KFØLAX to WØPU continued

1) the applicant meeting the regulatory requirements for the call sign, 2) the application day, and 3) the order of preference submitted, all using a rather complicated formula. For each application date, all valid applications get shuffled, much like in a raffle drawing. Once yours comes up, your choices are then processed in the order listed. The process is described on the K2CR FAQ website linked at the end of this article.

If you want a vanity callsign, check which types are suitable for your license class and region. Then think about which letter and number combinations would work for you. Short 1x2 and 2x1 call signs are in high demand and assigned only to Extra class operators. General and Technician class operators may request 1x3 callsigns. If you are a CW operator, also think about how many dits and dahs you would have to tap out. A lower number with fewer dah's is faster. The RadioQTH website has a page to find out the CWweight (linked at the end of this article).

If you have had your callsign for a while, you may need to change quite a few things when acquiring a new vanity callsign. A new badge, shirt, jacket or cap. Changes on LoTW, QRZ and other websites. ARRL email forwarding. A RadioID for DMR, Brandmeister, the callsign in your radios, your D-Star or Fusion registration and Pi-Star hotspot. Your callsign at HRO, DXEngineering, Groups.io and any other services you may be using. So, think about how much you want that new callsign. But if picked right, it will be yours for life.

As of January 31, 18 days after the submission, my callsign is W0PU. I was lucky to get my first preference vanity call sign. 73

-- Hans WØPU

### Resources Used:

Ham Radio School Article: Get a Vanity Call Sign:

<https://www.hamradioschool.com/post/get-a-vanity-call-sign>

FCC Call Sign System and Regulations:

<https://www.fcc.gov/wireless/bureau-divisions/mobility-division/amateur-radio-service/amateur-call-sign-systems>

ARRL Vanity Call Sign Information:

<http://www.arrl.org/vanity-call-signs>

Radio QTH Vanity Callsign Search:

<https://www.radioqth.net/>

AE7Q Query Tools for Callsigns:

<https://www.ae7q.com/query/>

<https://www.ae7q.com/query/text/Vanity.php>

K2CR Vanity Callsign Predictions:

<https://vanities.k2cr.com/index.html>

<https://vanities.k2cr.com/faq.html>

## Want to write a piece for the Newsletter?

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

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Email Editor



# Member Comments



We had a great turnout for Tech Day, January 11, at the Black Forest Fire Station. Approximately 35 people were in attendance. The morning started with presentations on constructing a power cable with Anderson PowerPole connectors, selecting coax and constructing a feedline jumper, and soldering techniques. Following lunch, there was an opportunity to put this information into practice. We had three soldering stations manned by several experienced club members, Emil AEØZC, Dan NØOLD, and Tim WØOOD. Thanks to them for their assistance.

**KEØHZ**

Further thanks to Hans KFØLAX and Bob WØHTH for their help in planning the event and assisting with the cable building activity. Thanks also to numerous other attendees that stepped in to assist with the cable building during the afternoon.

There were numerous lessons learned on dealing with a "hands-on" event that should serve us well in the future. Thanks to everyone for making it a great day!

-- Loren KEØHZ

**KFØRIG**

WØTLM has been immensely helpful in my new hobby, Amateur Radio. This club is full of knowledgeable Hams who are more than willing to help someone who is starting out.

Tech Day was no exception. It was an awesome experience. What may seem like basic knowledge to some, turned out to be incredibly valuable information for others.

Thanks to all the Elmer Wizards in WØTLM who helped out with Tech Day.

-- Matt KFØRIG

**N9HSW**

Thank you WØTLM for an outstanding Tech Day. Even though I've been soldering and crimping for many years, I learned some new tips and tricks that will help me with my projects. Even more important, I saw some tools that are new to me and I may purchase. As someone who started long ago with only wire cutters and a soldering iron, there is always something new to learn to improve the project and reduce the frustration!

-- Larry N9HSW

**NØCHL**

Tech Day was another great event from the WØTLM club. It was full of easy to understand information with plenty of time for questions and additional explanation of topics. The "hands on" portion was well laid out and each station offered valuable interaction with club members and even guest, as everyone worked on boards and cables. Of course I walked away with wanting more "stuff" for my shack. Not good.

-- Cathy NØCHL

## Got a comment for the Newsletter?

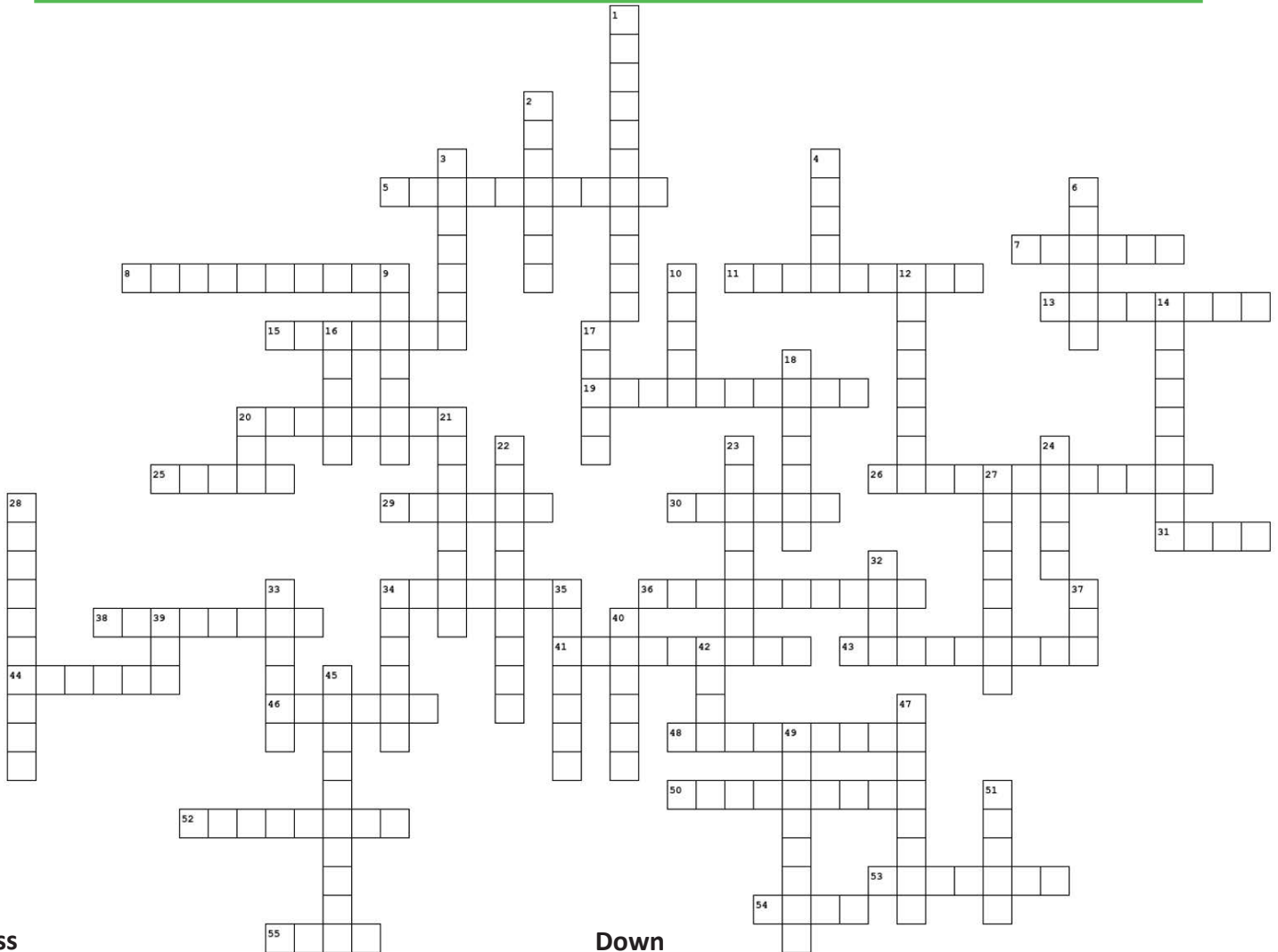
Share your thoughts with your clubmates about anything club, radio, or technology related! Drop your comments on the Newsletter.

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

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# Just for Fun WØTLM Ham Radio Crossword Puzzle



## Across

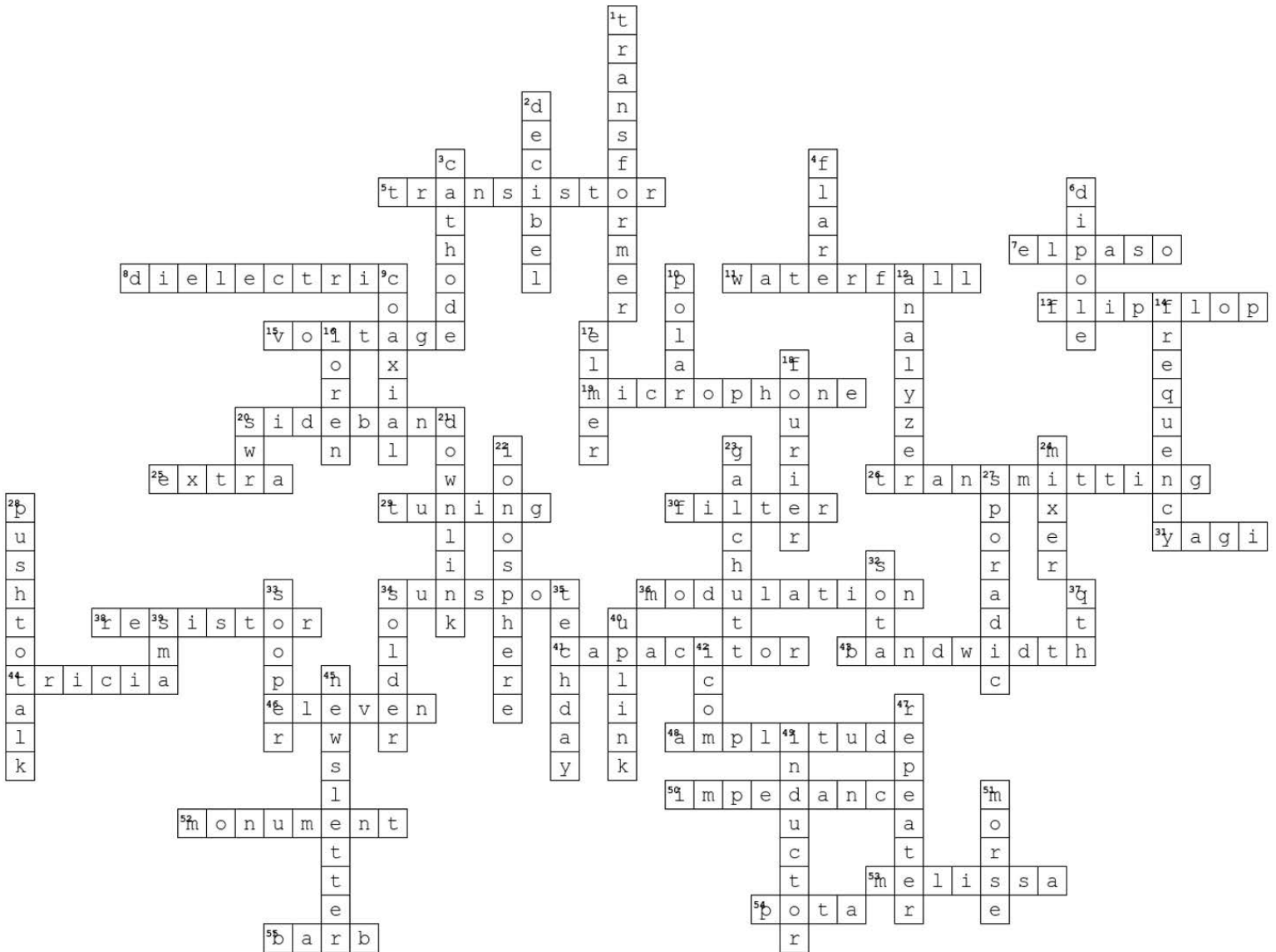
- 5. Tiny amplifier
- 7. Local county
- 8. Cable insulator
- 11. Display for digital modes
- 13. Basic logic storage unit
- 15. Potential measure
- 19. Speak here
- 20. One half of AM signal
- 25. Highest license
- 26. Emitting signals
- 29. Selecting a frequency
- 30. Frequency limiter
- 31. Directional antenna
- 34. UV generator
- 36. Put information in a signal
- 38. Current limiter
- 41. Stores energy in electric field

- 43. Max - min frequency range
- 44. Community Events Director
- 46. Years of a solar cycle
- 48. Signal power representation
- 50. AC Electrical Characteristic
- 52. Local town
- 53. Editor
- 54. Park ops
- 55. Treasurer

## Down

- 1. AC Voltage changer
- 2. Power comparison metric
- 3. A diode pole
- 4. Solar burp
- 6. Simple wire antenna
- 9. Cable type
- 10. Amateur satellite orbit type
- 12. Antenna performance measurer
- 14. Cycles per second
- 16. VP's name
- 17. Helpful radio tutor
- 18. Convert frequency domain to time domain
- 20. Antenna performance metric
- 21. Signal from a satellite
- 22. HF refractor
- 23. Goat Hiker
- 24. Frequency shifting component
- 27. E layer skip characteristic
- 28. Do this to transmit
- 32. Peak ops
- 33. Club fundraiser "King"
- 34. Electrical bonding material
- 35. January 11 event
- 37. Shorthand for location
- 39. Small connector
- 40. Transmission to a satellite
- 42. Club HF station brand
- 45. This publication
- 47. Used for net
- 49. Coil of wire component
- 51. Inventor of code

# Just for Fun WØTLM Ham Radio Crossword Solution



Amplitude • Analyzer • Bandwidth • Barb • Capacitor • Cathode • Coaxial • Decibel • Dielectric • Dipole • Downlink • Eleven • Elmer • ElPaso • Extra • Filter • Flare • FlipFlop • Fourier • Frequency • Galchutt • Icom • Impedance • Inductor • Ionosphere • Loren • Melissa • Microphone • Mixer • Modulation • Monument • Morse • Newsletter • Polar • POTA • Pushtotalk • QTH • Repeater • Resistor • Sideband • SMA • Solder • Sooper • SOTA • Sporadic • Sunspot • SWR • TechDay • Transformer • Transistor • Transmitting • Tricia • Tuning • Uplink • Voltage • Waterfall • Yagi

# Admin & Info

## WØTLM Officers & Appointees, Etc.



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

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### 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 KØTRD

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**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:

March 29, 2025 10:30 am  
Monument Library Meeting Room  
(Limited seating, class student priority)

June 9, 2025 10:30 am  
Monument Library Meeting Room

[Register for a Session](#)

## Net Control Officers:

**Feb 3:** Need NCO  
**Feb 10:** Need NCO  
**Feb 24:** Need NCO  
**Mar 3:** Need NCO

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

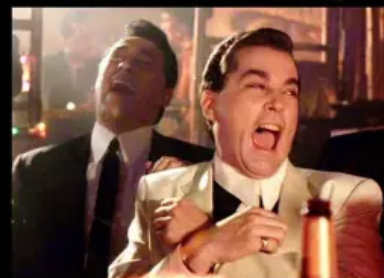
[Sign Me Up  
for NCO!](#)

[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!

So I bought a new transceiver  
and she asked...



"Are you going to sell any of  
your old ones?"

Tri-Lakes  
Monument  
Radio Association,  
WØTLM  
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# 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: [w0t1m-elmer@w0t1m.org](mailto:w0t1m-elmer@w0t1m.org)

### **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: [w0t1m-elmer@w0t1m.org](mailto:w0t1m-elmer@w0t1m.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](#)

### RM HAM University

Check out the offerings and sign up [here](#).

- 02/15/2025 **Nerdfest**
- 03/15/2025 **Antenna Workshop**  
Doug K2AD and Willem AC0KQ
- 04/26/2025 **Grounding and lightning protection**  
Mike K7AIH

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

### Upcoming Events & Hamfests

- 2/15/2025 [Rocky Mountain Nerdfest](#) 8:30-12 Greenwood Village, CO
- 2/16/2025 [RMHAM Swapfest](#) 9am - 1pm. Brighton, CO.
- 4/5/2025 [LARCFEST](#) 8 am start time. Longmont, CO.
- 5/16-18/2025 [Hamvention](#) Xenia, OH, Greene Co. Fairgrounds  
The largest ham radio convention in the world!
- 10/23-26/2025 [ARRL Rocky Mountain Division Convention](#).  
HamCon Colorado 2025. Grand Junction, CO.



# Admin & Info

## Local Education Events & Resources



### WØTLM License Class - Technician & General March 1 - April 5, 2025

We are now accepting enrollments for our spring ham radio class offering. This class will be offered March 1 through April 5, and it is a combined Technician License Class and a General License Class. Enrolled students may be any of the following:

- New to ham radio (no license) and preparing for the Technician license exam
- Holding a Technician license and upgrading to the General license exam (reviewing Technician, focusing on General)
- New to ham radio (no license) and preparing for both Technician and General license exams (this is not for everyone, a strong technical background is required)

We will again be leveraging the online curriculum from [Ham Radio School](#) for student independent learning within a pacing schedule across the weeks of the class. Each student will be assigned to a volunteer Elmer from WØTLM who can answer questions, provide additional information and support, and generally help the student to be successful. The class will have one formal review session each week by Zoom meeting, plus one 'Elmer Check-in' each week to help ensure student advancement and learning.

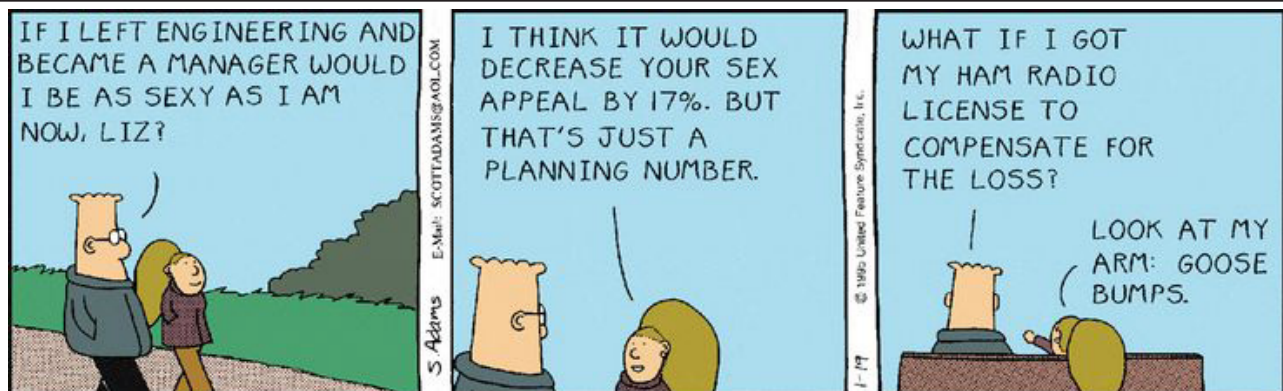
Please relay this information about the class offering to anyone you know who is interested in earning or upgrading their license. Relevant information links follow:

- [Class Overview](#)
- Class Outlines, Schedule Details, and Registration:
  - [Technician class](#)
  - [General class](#)

The registration fee is \$50 (\$40 under 18). All student Technician or General study materials are included in this registration fee. If you decide to pursue both Technician and General simultaneously, register for the Technician class and we will provide instructions on how to add in the General later. Technician and General course subscriptions from Ham Radio School are non-expiring, so students will retain all study materials for future use, as needed.

The FCC will charge an additional administrative license fee of \$35 following a successful examination for the Technician License. This fee is not applicable when upgrading to the General license.

Questions may be directed to license class directors [Stu WØSTU](#) or [Bob KØNR](#).

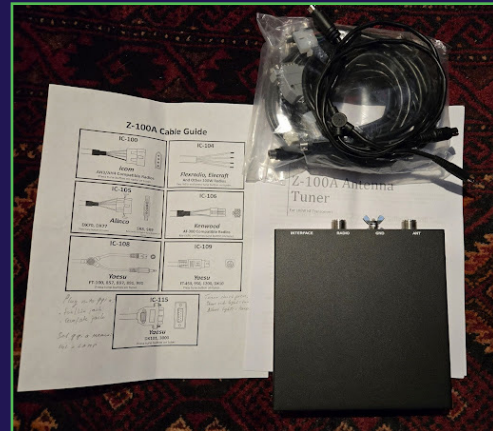


# Classified Ads

## Member Gear for Sale

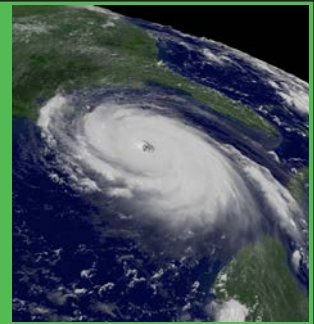


LDG Electronics Tuner Z-100A <https://www.ldgelectronics.com/z-100-a>  
Local Pickup in Woodmoor. \$125.00  
Contact Hans WØPU [w0t1m@hansmail.org](mailto:w0t1m@hansmail.org)



### Are you a ham who also likes to read adventure fiction?

- Do you know anything about hams who also do CB?
- Would you like to read a section of my upcoming novel about Hurricane Katrina to help fact-check?
- If you have an hour to share in Feb/March, write to me and I'll send you more details about this project to gauge your interest.



Lisa KBIJLI [LHatfield0786@msn.com](mailto:LHatfield0786@msn.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!

Send Your Ad



# Tech Day 2025, Black Forest Fire and Rescue Station

Photos by Dan NØOLD

