



# The W5IAS Transmitter

## TARC Officers & Committees

- ◆ **President**  
Mark Adams, WA5MA
- ◆ **Second Vice President**  
Ky Vargus, KY5VAR
- ◆ **Treasurer**  
Jerry Weikel, KE5PMK
- ◆ **Membership Committee**  
Jack Conway, W5JHC
- ◆ **Newsletter Editor**  
Andrew Shead, W5AWS
- ◆ **Public Service Liaison**  
Robert Kerns, KI5WDD  
Bobby Hunt, KJ5CLV
- ◆ **Repeater Maintenance**  
Paul Teel, WB5ANX  
David Kennedy, N5DMK
- ◆ **First Vice President**  
Jack Conway, W5JHC
- ◆ **Secretary**  
Andrew Shead, W5AWS
- ◆ **Repeater Trustee**  
Gregg Wonderly, W5GGW
- ◆ **Club Historian**  
Andrew Shead, W5AWS
- ◆ **Webmaster**  
Jack Conway, W5JHC
- ◆ **ARES Coordinator Tulsa County**  
Paul Teel, WB5ANX
- ◆ **Quartermaster**  
Paul Young, KE5EHM

## TARC Weekly Net

Tuesdays at 8:00 PM on the Superlink System

<https://w5ias.com/repeater-systems/>

In Tulsa tune to 443.850 MHz 88.5 PL, or listen online via Broadcastify

<https://www.broadcastify.com/listen/feed/43986>

## TARC Tech Night

1<sup>st</sup> Tuesday of the month at 7:00 PM

## TARC Monthly Meeting

3<sup>rd</sup> Tuesday of the month at 7:00 PM

All meetings are at Tulsa University

Keplinger Hall Room 3140

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## Endnotes Review

In this newsletter, we have endnotes intended to help newly licensed operators who might be struggling with the Hamster Lingo and other abbreviations. It's easy: Need to know what a LID<sup>1</sup> is? Find out by clicking on the superscript number immediately after the term.

## Bookmarks & Table of Contents

As you saw scroll by getting to here, there is a table of contents for this newsletter. Each entry is an active link to the heading of the article, making it easy for you to go direct to your area of interest.

Opening this newsletter in your web-browser, you should see a list of bookmarks open in the left-hand pane of your browser window, at least you should if you use a browser like FireFox.

Opening this newsletter in a PDF<sup>2</sup> viewer like the free Okular, you should see the bookmarks and content as shown in Figure 1.

Figure 1: Newsletter open in Okular PDF viewer

The screenshot shows the Okular PDF viewer interface with the following details:

- Top Bar:** File, View, Edit, Go, Bookmarks, Tools, Settings, Help.
- Toolbar:** Show Sidebar, Browse, Text Selection, Yellow Highlighter, Page 1 of 23, Zoom Out, Fit Width, Zoom In, Highlighter, Typewriter, Popup Note.
- Left Sidebar (Table of Contents):**

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  - TULSA AMATEUR RADIO CLUB
  - Emergency Communications
  - The W5IAS Transmitter**
  - TARC Officers & Committees**
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    - Webmaster** Jack Conway, W5JHC
    - ARES Coordinator Tulsa County** Paul Teel, WB5ANX

## January Minutes of Meeting

See this URL<sup>3</sup> for the minutes of the last in-person club meeting:

- <https://w5ias.com/wp-content/uploads/2026/01/January-2026-Meeting-Minutes.pdf>

- <https://w5ias.com/2026/01/21/tarc-january-zoom-meeting-video/>

## January Newsletter

If you missed the January newsletter, you can find it on our website at this location:

- <https://w5ias.com/wp-content/uploads/2026/01/20260101-TARC-Newsletter-January-2026.pdf>

## President's QST<sup>4</sup>

—Mark, WA5MA

### ***It's all about repeater interference...***

For the last few months we have experienced a lot of intentional interference on the Superlink Repeater System, as well as on several other repeaters in the Tulsa and surrounding areas. We know it's intentional because of the type of interference and that it's happening at random times throughout the day as well as during several of the weekly nets.

Intentional interference on a repeater can lead to the loss of your license, loss of your equipment and a significant fine from the FCC<sup>5</sup>. Intentional interference with a net only adds to the severity of the offense and could even lead to jail time.

Check your equipment: make sure that your VOX is off, your microphone or speaker-mic buttons are working properly, not stuck in the transmit-position. Be careful when using an HT<sup>6</sup> with or without a speaker-mic, make sure you are not activating the PTT<sup>7</sup> when you sit down in your favorite chair or in the car.

Do you like to “kerchunk<sup>8</sup>” the repeater to test your signal? Well, if you do that without adding your callsign, that’s a violation of FCC rules and regulations. If you need to check that you are making it to the repeater, just ask for a signal report and someone will be monitoring that can do that for you. Either way, you must give your callsign.

### ***Remember the Repeater Challenge???***

On a lighter note: “*Nobody talks on the repeaters anymore*”. I’m sure you’ve heard that. In the fall of 2024 at a club meeting, I suggested to the members present that they take on the Repeater Challenge, and you know what...they accepted the challenge. It worked for a while with many club members and others in the coverage area of the Superlink System throwing out their callsign or answering the call of someone else. There were some great conversations, and I pretty much heard someone every day, fulfilling their obligation to participate in the challenge.

Fast-forward a year and I think a reminder is in order! If you’re sitting at your desk paying bills, hanging out watching TV or even while driving in your car, turn on your

radio and listen for someone to give their callsign or asking for a signal report. If you hear them, don't wait! Call them back and start a conversation about the weather, where they are—if they're within the Superlink coverage area they could be anywhere—ask them what radio and antenna they're using. I would bet a dollar to a donut that for every ham that answers a call on their radio there's another ten just listening.

I'll make a suggestion or two now...if you are the one giving out your callsign, don't just give one call and then turn off your radio! Give your call like this: "This is WA5MA, whiskey alpha 5 mike alpha in Tulsa." Wait 30 seconds or so and then transmit the same message again because the person listening maybe has the volume down on his radio and didn't catch your callsign but heard something. Could be they're on their phone, and you turned off the radio before they could hang up and answer your call.

My second suggestion is take a radio with you when you leave your house. This is especially important during storm season or if you travel outside your cell phone coverage area, and there are a few areas that don't have coverage. Even if you just have it in your car, it's available when you need it. **The Repeater Challenge! Let's hear you on the air!!!**

## *And what happened in January???*

Our first meeting of 2026 was a good one. We took a few minutes to recognize those club officers and members who did great things in 2025. There were almost a dozen members that received certificates for the work that they did such as coordinating Field Day activities, participating in the MakerFair and Tinkerfest, teaching and mentoring, keeping the nets going, CW<sup>9</sup> and the weekly nets, ARES<sup>10</sup> participation and doing an outstanding job in their club officer duties.

After a short re-cap of our activities in 2025 I asked for suggestions that club members would like to see in 2026 and here are the results:

- ◆ A club Parks on the Air day—we're already working on this one
- ◆ A club fox hunt
- ◆ An antenna build day for 2M/440 and-or an HF antenna like an end fed wire
- ◆ Working satellites
- ◆ A Zoom Tech meeting like Tech Night only over Zoom
- ◆ What about DMR<sup>11</sup>?
- ◆ Member Spotlight where we show off a club member's station
- ◆ The Basics for the new hams or those who would like a refresher

- ◆ Find an Elmer for mentoring and teaching new and old

Keep an eye and an ear open for day and time.

## ***Our last TARC Tech Night...***

Was January 6<sup>th</sup> at 7:00 PM at TU<sup>12</sup>. What was on the agenda you ask?

Mark Roberts, KD5SMF, demonstrated his newly purchased Faraday Radials. It was an interesting presentation, and we would like him to do it again at a club meeting. The big question is: How well do they work?

After the field demonstration outside Keplinger Hall at the University of Tulsa, KD5SMF presented the results of his tests that revealed a largely flat response across the bands with an SWR<sup>13</sup> well below 2:1.

KD5SMF Faraday radials



## ***Our Next TARC Tech Night...***

The next Tulsa Amateur Radio Club Tech Night is February 3<sup>rd</sup> in Room-3140 of Keplinger Hall at TU beginning at 1900 hours.

The agenda is Swap-n-Shop and an open forum. Be prepared to bring and buy, or swap, your surplus equipment. Operators new and old will have opportunity to discuss aspects of amateur radio, ask questions, provide answers, or just be present listening.

## ***February Monthly Meeting...***

We will convene our February monthly meeting on Tuesday the 17<sup>th</sup> in Room-3140 of Keplinger Hall at TU beginning at 1900 hours.

At the conclusion of the business portion of the meeting the main event will be *Ask an Elmer*. We will have a panel of five club members who are each expert in their area of interest; or if not expert, have had much practical experience overcoming the inevitable challenges presented by Ham Radio. Attendees can ask the Elmers<sup>14</sup> anything about their areas of interest.

## ***The TARC Trailer Team has already been working...***

On several projects inside and outside the trailer. The club has eight Trailer Team members and several who are able to tow the trailer from its new storage location to wherever it needs to be for an event.

# The W5IAS Transmitter for February 2026

7/23

## **Trailer Team members are:**

Cody, KJ5JDO, Team Leader	Greg, AI5HV	Robbie, W5RML	Gabe, KJ5JOW
Rusty, KJ5MGC	David, N5DMK	Tim, KI5ZDF	Cory, KJ5LAM

## **Trailer Team advisors are:**

Steve, KF5VCQ	Jack, W5JHC	Paul, WB5ANX
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Having the trailer in its new location and completing some current projects means the trailer is available on very short notice if needed, and it'll make operating inside the trailer more efficient and a more pleasurable experience. Having members available to tow the trailer means that it is always ready and available for set-up in a very short amount of time. Can you tow the trailer? Let us know, and we'll put you to work. Thanks!



## ***Can't make the monthly meetings...***

We're streaming and recording video of the monthly meetings and showing them on Zoom for those unable to attend in person. If we have recorded the meeting, it will be on the W5IAS.com website in the Recent Posts on the Home page and on our Facebook page. If you're interested in learning more please contact Jack, W5JHC, for info. Thanks, Jack!

## ***Looking to give back to the community?...***

Looking to have some fun playing radio and hanging out with other hams? You found the right place.

ARES is always in need of volunteers, but to participate you must complete a self-paced training course and get an OKMRC<sup>15</sup> badge that gives you access to the places where amateur radio operators can help with communications during emergencies. OKMRC badges are FEMA<sup>16</sup>-approved and therefore involve a background check. ARES involves volunteer training, ARES nets, hospital nets, and Simulated Emergency Tests, but operating practice comes in the form of bike rides, Field Days and other events that you can participate in anytime.



Contact either Paul, WB5ANX, at [paulteel@gmail.com](mailto:paulteel@gmail.com), or Mark, WA5MA, at [wa5ma-mark@gmail.com](mailto:wa5ma-mark@gmail.com) if you would like to learn more or sign up to be an ARES Volunteer.

## ***If you're already an ARES Volunteer...***

You should be checking in to the ARES Net every Thursday at 8:00 PM on the designated repeater. We're going to start doing some cool things on the Net and you need to be a part of it for training purposes, working equipment verification and communications protocols. Keep an eye out for upcoming comms checks by email, text, and over-the-air.

After we get through this busy time of year we'll be offering Net Control Operator training classes and more in-person ARES training.

## ***The Tulsa County ARES Net...***

Uses the following frequencies:

- Weeks 1 – 3 on 145.170 (PL 88.5)
- Weeks 4 – 5 on the Superlink Repeater System 443.850 (PL88.5) in Tulsa.

Check the <https://w5ias.com/> website on the Repeater dropdown for system frequencies.

## ***Here are the current club activities...***

- Tech Night—1<sup>st</sup> Tuesday of each month. 7:00 PM at TU.
- Monthly meeting—3<sup>rd</sup> Tuesday of each month. 7:00 PM at TU.

Attend the meeting to support your club and club officers who do so very much for the club with activities, nets, events and keeping the club running smoothly.

We have 204 members, which means we need at least 41 members present at each meeting to form a quorum for voting.

- Weekly TARC Net on the Superlink System, Tuesdays at 8:00 PM
- CW Net, Mondays and Thursdays at 7:00 PM on 7.037 MHz +/- QRM<sup>17</sup>
- NCO<sup>18</sup> training, ARES training—TBD<sup>19</sup> in 2025

## ***We also have member spotlight...***

Member Spotlight is now a part of our monthly meetings. Want to show and tell your station or your love for a particular part of ham radio? Contact Ky, KY5VAR, and let him know. He'll get you scheduled.

KY5VAR also starting a *show-us-your-shack* presentation, so take some pictures and show us your ham shack.

## ***Every month is a contest month...***

Go to <https://www.arrl.org/>; click Contest Calendar; scroll to Contest Corral; click on the month you want to check. Try POTA<sup>20</sup> or SOTA<sup>21</sup>. Call CQ<sup>22</sup>. Go to a local park, grab one of the club go boxes, throw up a wire and get on the air.

Prepare now! The weather will soon be good enough to get outside!

## ***President clear and monitoring...***

Be safe, Be a good friend, Get on the air!

Mark, WA5MA,  
President—Tulsa Amateur Radio Club.

## **Buying a Big-Three Rig is Questionable in 2026**

Hans Summers, G0UPL, owns and operates QRP Labs. In this video, David Owen, G3LRC, interviews him about why buying a big-three rig doesn't make sense in 2026,

- <https://www.youtube.com/watch?v=06FHS7LQKs>

Anyone wanting good value for money need look no further than the QMX+, a QRP<sup>23</sup> rig covering 160 to 6 meters that is a relatively easy kit to build and well-supported by the groups.io users group.

## **Ham Radio Fifty-five Years Ago**

Ever wonder what we were doing back in the day? See this ARRL promotional video from the 1970s:

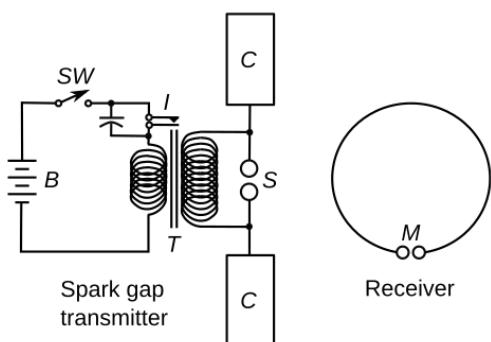
- <https://www.youtube.com/watch?v=v6-ydrdTPhM>

## Antennas: From Simple to Complex, Part-1 of 3

—Mark, KD5SMF

- ◆ Part-1: February: From simple to complex, it's how we use them that matters.
- ◆ Part-2, March: Antenna modeling and end-fed antennas.
- ◆ Part-3, April: Vertical antennas.

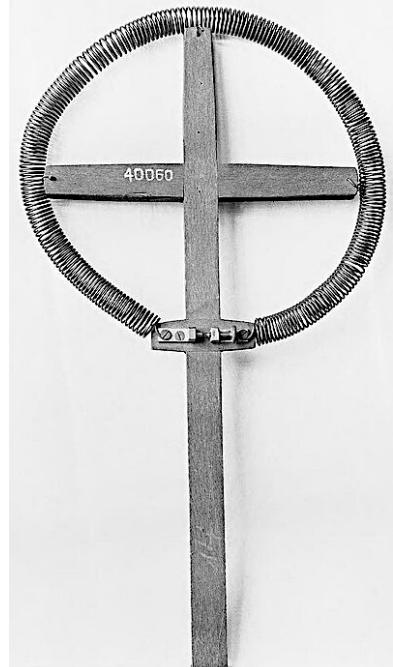
Hertz spark-gap schematic



Heinrich Hertz



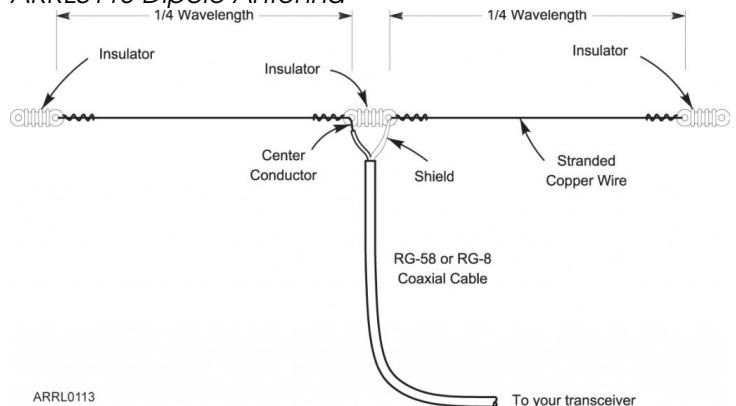
Hertz Loop Antenna



The humble beginnings of radio started with exploration of electricity by scientists fascinated with how and why things worked, their research developed into what we now know as Amateur Radio. German physicist, Heinrich Hertz, built the first experimental spark-gap transmitters in 1887, with which he proved the existence of radio waves and studied their properties. The spark-gap transmitter was the first to wirelessly send telegraphic messages over a distance. However, it used an enormous amount of electricity just to send a short message. Hertz also invented the first practical antenna in the late 1880s to prove Maxwell's electromagnetic wave-theory by using a simple dipole antenna with parabolic reflectors.

Guglielmo Marconi later developed antennas for practical long-distance wireless communication in the 1890s, while other inventors later created more specialized, common types like Yagi and Uda who developed the Yagi-Uda antenna, and Richard B. Johnson the rubber-ducky.

ARRL0113 Dipole Antenna



We can thank Hertz for designing the first dipole antenna for transmitting and receiving. And for most Amateur Radio operators, the dipole is one of the most efficient and practical antennas that anyone can make out of just about anything. The dipole was my first antenna that I ever made with the Tulsa Repeater Organization during my first field day. When I was a new ham, I had a Radio Shack DX-10 mobile transceiver that had 25 watts output.

I built the antenna guided by a TRO<sup>24</sup> club member who had an antenna analyzer. We set the center frequency on 10 meters at 28.300 MHz, and the antenna had a narrow bandwidth, so when another operator asked me to QSY<sup>25</sup> above my limited dipole, I lost him before I could say that my antenna wouldn't work there. I enjoyed that 10-meter antenna, and I made many DX<sup>26</sup> contacts using it including Battleship Missouri, KH6BB, which is still my favorite 10-meter QSO<sup>27</sup> of all time.

For many years, I used dipole antennas including the G5RV. The G5RV has an overall length of 102-feet, and 450-Ohm ladder-line feed is a beast of a performer. I worked New Zealand on 40 meters using a G5RV which is over 7,000 miles (11,265.41 kilometers) from Tulsa to its Northern NZ shores where an SSB<sup>28</sup>-net was underway. I maintain a G5RV in my inventory to this day but only as an emergency antenna.

## Going Beyond the Dipole

A dipole is basically a balanced antenna with a 50-Ohm coax connection and an equal length of wires on either side of the center. Most Hams have made dipoles and use them regularly. The starting point for me was the dipole however, I like to experiment with different types of antennas and build some that are challenging like a 2-meter J-Pole out of copper pipe. I built and used a 2-meter J-Pole with the club some years ago, and I still have the antenna, although I do not have it in operation at this time.

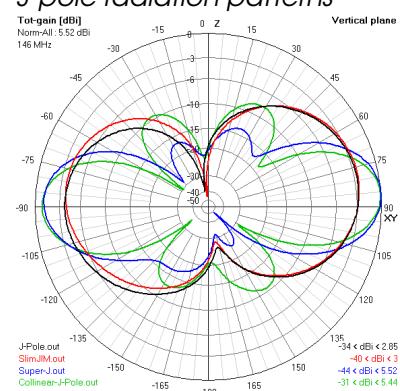
The J-Pole is an efficient antenna design as the radiation pattern shows in the diagram here. One can see that the radiation pattern for the J-Pole is nearly omnidirectional, and gives nearly a 360-degree radiation pattern. It is also similar to the dipole-antenna figure-8 pattern. With all VHF<sup>29</sup> antennas, height improves performance, and getting your VHF antenna above the roof-line makes perfect sense.

My J-Pole suffered a lightning strike near our home that melted the contacts. I am fortunate that I took precautions with grounding and had lightning protection in line with

2-meter J-pole antenna



J-pole radiation patterns



my coax. Lightning left the copper pipe undamaged, and I could easily repair the antenna.

One can explore multiple types of antennas for VHF, UHF<sup>30</sup>, and Satellite antennas, and even those in the Gigahertz range. Antennas in these categories are more complex and have detailed information regarding building and using these properly. I myself have not ventured beyond the VHF-UHF spectrum with antenna builds. And there are volumes of books with which anyone who wants to explore this area of our hobby can read and study on this part of our subject. Since I am not familiar with those types of antennas, our discussion will be on Easy-to-Build for HF<sup>31</sup> spectrum based within your own Ham Radio license.

## Getting Started: Basic Antenna Modeling

Antenna Modeling! Wow, now that's a word that most new Hams are not familiar with. Nor do they often go into the deep end of antenna builds to figure out what exactly is the knowledge-base for learning how to model an antenna. I will be the first to admit that I have not read the *ARRL Antenna Handbook* from cover to cover. It is after all a *reference volume*. However, my 20<sup>th</sup> Edition Antenna Handbook did come with a free copy of EZNEC<sup>32</sup> software on a CD<sup>33</sup>-ROM<sup>34</sup>. This is a powerful software program that anyone who is serious about building antennas can learn to use. I found it somewhat difficult to use at times, especially when one doesn't use it regularly.

User-friendly antenna modeling is available for FREE download as the MMANA antenna modeling software. I watched the DX Commander, Callum McCormick demonstrate how easy it was to download and use this software. Here is the link to his video on MMANA Antenna Modeling here:

- <https://www.youtube.com/watch?v=dgBcYy6kwWs>

Another website that I frequently use that has antenna modeling online is Portable-Antennas;

- <https://portable-antennas.com/index.php>

Why would you want to model an antenna before you build it one might ask? It is a part of our hobby and learning how things work. So if you enjoy tinkering with your equipment, antenna modeling is a good place to start. Plus, you don't have to buy anything.

There is a great deal of information on the Internet, and resources that you can find in your local library regarding antenna design, modeling, and building. Here I have only introduced you to a small slice of the pie. In Part Two of Antennas, I will discuss modeling the End Fed Half Wave, UnUns and how they are used and why they're used. From the 1 to 1 to the 49:1 and how easy it is to make your own. Until next month's edition: 73 DE KD5SMF.

## ARRL Club Newsletter Contest

—Greg, AI5HV

Part of ARRL's [Year of the Club](#) ARRL is hosting a Club Newsletter Contest. With that in mind, and after consulting the Club Officers, I decided to enter the most recent year's-worth of *W5IAS Transmitter* newsletters in competition against the newsletters of other clubs. As our newsletter editor, W5AWS, said: "Competition will be stiff. Even so, nothing ventured, nothing gained." I beat the competition deadline for submissions by four minutes. What follows is the 500-word summary explaining why the *W5IAS Transmitter* is a worthy competitor.

The purpose of the Tulsa Amateur Radio Club newsletter is to inform, educate, connect, and inspire our members while strengthening the overall amateur radio community in the Tulsa area. As both a record of club activity and a forward-looking communication tool, the newsletter serves as a central hub that supports the club's mission of promoting amateur radio, advancing technical knowledge, encouraging public service, and fostering fellowship among operators of all experience levels.

One of the newsletter's primary goals is to keep members informed. Timely updates on meetings, nets, special events, license classes, public service activities, and emergency communications exercises ensure that members know how and where to participate. By providing clear schedules, announcements, and recaps, the newsletter helps maintain strong engagement and reinforces the idea that the club is active, organized, and welcoming. This consistency is especially important for members who may not be able to attend every meeting in person but still wish to remain connected.

Education is another core goal. The newsletter regularly includes technical articles, operating tips, equipment reviews, antenna projects, and regulatory updates that help members expand their skills and confidence. Content is intentionally varied to serve a wide audience—from newly licensed amateurs learning basic operating practices to seasoned operators exploring advanced modes, digital communications, or emergency preparedness. By sharing practical knowledge and real-world experience, the newsletter supports lifelong learning and encourages experimentation, which are fundamental values of amateur radio.

The newsletter also plays a vital role in building community. Features such as member spotlights, contest results, field day reports, photos, and personal stories highlight the people behind the call signs. This human element strengthens relationships within the club, celebrates achievements, and helps new members feel recognized and included. By documenting shared experiences, the newsletter preserves the club's history and reinforces a sense of pride and belonging.

Public service and emergency communications are central to amateur radio, and the newsletter actively supports these goals. Coverage of ARES® activities, SKYWARN

training, disaster drills, and community service events emphasizes the club's commitment to serving Tulsa and the surrounding region. This content not only prepares members for real-world deployments but also reinforces the importance of professionalism, readiness, and teamwork.

Finally, the newsletter serves as an outreach tool. By presenting amateur radio as accessible, relevant, and rewarding, it encourages participation, mentorship, and growth within the hobby. Whether read by long-time members or newcomers, the newsletter reflects the club's values and vision.

In summary, the Tulsa Amateur Radio Club newsletter exists to unite information, education, service, and community in one reliable publication. Through thoughtful, relevant content, it advances the club's goals and helps ensure a strong, informed, and engaged amateur radio community for years to come.

## Club Badges

—Jeffrey, KJ7JTU

Our new club badge is more durable and looks like the one shown here, except with your name and callsign. To get one, contact Jeffrey, KJ7JTU, by completing and submitting the form on our website that you can reach via this URL:

- <https://w5ias.com/member/tarc-badge-request/>



## Newsletter Submissions

Do you have something you would like to share with other members of our club? Send your contributions, text and pictures, via email to the editor of the newsletter at [w5aws@use.startmail.com](mailto:w5aws@use.startmail.com).

Deadline for submissions is the 25<sup>th</sup> of each month.

Don't be shy. The editor's job is to make you look good in print.

## Qualified Charitable Distributions

—via Mark, WA5MA

Here is some information on a different Q-code... QCD, Qualified Charitable Distribution. Check it out!

## ***Understanding Qualified Charitable Distributions (QCDs)...***

A Smart Way for IRA Owners to Support Charities and Reduce Taxes is to make a Qualified Charitable Distribution (QCD), a tax-savvy strategy that allows individuals aged 70½ or older to transfer funds directly from their Individual Retirement Account (IRA) to a qualified charity. QCDs offer significant tax advantages, making them a popular choice for retirees who want to support their favorite causes while managing their tax liability.

### ***How do QCDs work?...***

With a QCD, funds are sent directly from your IRA to an eligible charitable organization, bypassing your taxable income. The distribution amount can count toward your Required Minimum Distribution (RMD) for the year, helping you meet IRS withdrawal requirements without increasing your adjusted gross income (AGI), and therefore your tax liability.

### ***Who can make a qualified charitable distribution?...***

- You must be at least 70½ years old at the time of the distribution.
- The QCD must come from a traditional IRA, not a 401(k) or similar employer plan.
- The distribution must go directly to a qualified public charity, not a donor-advised fund or private foundation.

### ***Benefits of making a qcd...***

- Tax Savings: QCDs are excluded from your taxable income, which can help lower your overall tax bill and potentially keep you in a lower income bracket.
- RMD Fulfillment: The amount donated via QCD can count toward your annual RMD, helping you avoid penalties for missed withdrawals.
- Charitable Effect: QCDs provide immediate support to qualified charities, allowing you to see the benefits of your philanthropy in action.
- Medicare and Social Security: Lowering your taxable income may reduce the negative effect of income-based surcharges on Medicare premiums and the taxation of Social Security benefits.

### ***Key rules and limits...***

- The maximum annual QCD allowed is \$108,000 per individual for 2025 and is adjusted annually for inflation.

- You must arrange for the IRA custodian to send the funds directly to the charity; distributions made to you first and then donated do not qualify.
- You cannot claim a charitable deduction for a QCD, since it is not included in your taxable income.

## ***How to make a qualified charitable distribution...***

1. Contact your IRA custodian or financial advisor to initiate the QCD process.
2. Specify the amount and the charity to which you wish to direct the distribution.
3. Ensure the charity provides a receipt for your records, as the IRS may request verification.
4. Report the QCD on your tax return as a non-taxable IRA distribution: Consult your tax advisor for details.

## ***Is a qcd right for you?...***

If you are required to take RMDs and want to support charitable organizations, a QCD might be a smart and effective way to achieve your goals. Always consult with a financial or tax advisor to ensure that a QCD aligns with your overall financial plan and meets all IRS requirements.

## ***QCD conclusion...***

Qualified Charitable Distributions are a win-win for retirees and charities alike. By donating directly from your IRA, you can support the causes you care about, fulfill your RMD obligations, and potentially reduce your tax burden. Take advantage of this valuable opportunity to make a difference in your community and your financial future.

Contributions can be tax-free since the Tulsa Amateur Radio Club is a non-profit organization.

## **Repeater Maintenance Sinking Fund**

Our Treasurer, Jerry KE5PMK, says the sinking fund for repeater maintenance is growing and now with the death of Bob, W5RAB, we're taking over maintenance on several more repeaters, so we would really appreciate any contributions from club members and others as well. Contributions can be tax-free since TARC is a non-profit 503(c) organization.

We can't let this fall through the crack and risk repeater failure.

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Scan the QR code or click on the link to donate, and thank you.

<https://www.gofundme.com/f/ensure-tarcs-lifesaving-services-continue>



Another way to donate to the club is with Qualified Charitable Distributions, described above. Check it out!

## Club-serving Members

Tulsa Amateur Radio Club Active Positions				
	Position	Name	Call Sign	Duration
ELECTED	President	Mark Adams	WA5MA	31 Dec 2026
	First Vice President	Jack Conway, IV	W5JHC	31 Dec 2026
	Second Vice President	Ky Vargus	KY5VAR	31 Dec 2026
	Secretary	Andrew Shead	W5AWS	31 Dec 2026
	Treasurer	Jerry Weikel	KE5PMK	31 Dec 2026
	Public Service Liaison Officer	Robert Kerns	KI5WDD	31 Dec 2028
	Trustee	Bobby Hunt	KJ5CLV	31 Dec 2028
APPOINTED	Quartermaster	Gregg Wonderly	W5GGW	31 Dec 2028
	Webmaster	Paul Young	KE5EHM	
	Social Media Administrator	Jack Conway, IV	W5JHC	
	Merchandise Coordinator	Greg Meador	AI5HV	
	Newsletter Editor	Robert Kerns	KI5WDD	
	Membership Committee	Andrew Shead	W5AWS	
	ARES Coordinator	Jack Conway, IV	W5JHC	
	Volunteer Examiner Coordinator	Paul Teel, III	WB5ANX	
	Trailer Team Leader	David Kennedy	N5DMK	
	Trailer Team Members	Cody Guillaume	KJ5JDO	
	Trailer Team Advisors	Greg Meador	AI5HV	
	Repeater Maintenance Committee	Robbie Moreland	W5RML	
		Gabe Griffin	KJ5JOW	
UNLIMITED				

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## Treasurer's Cash Report

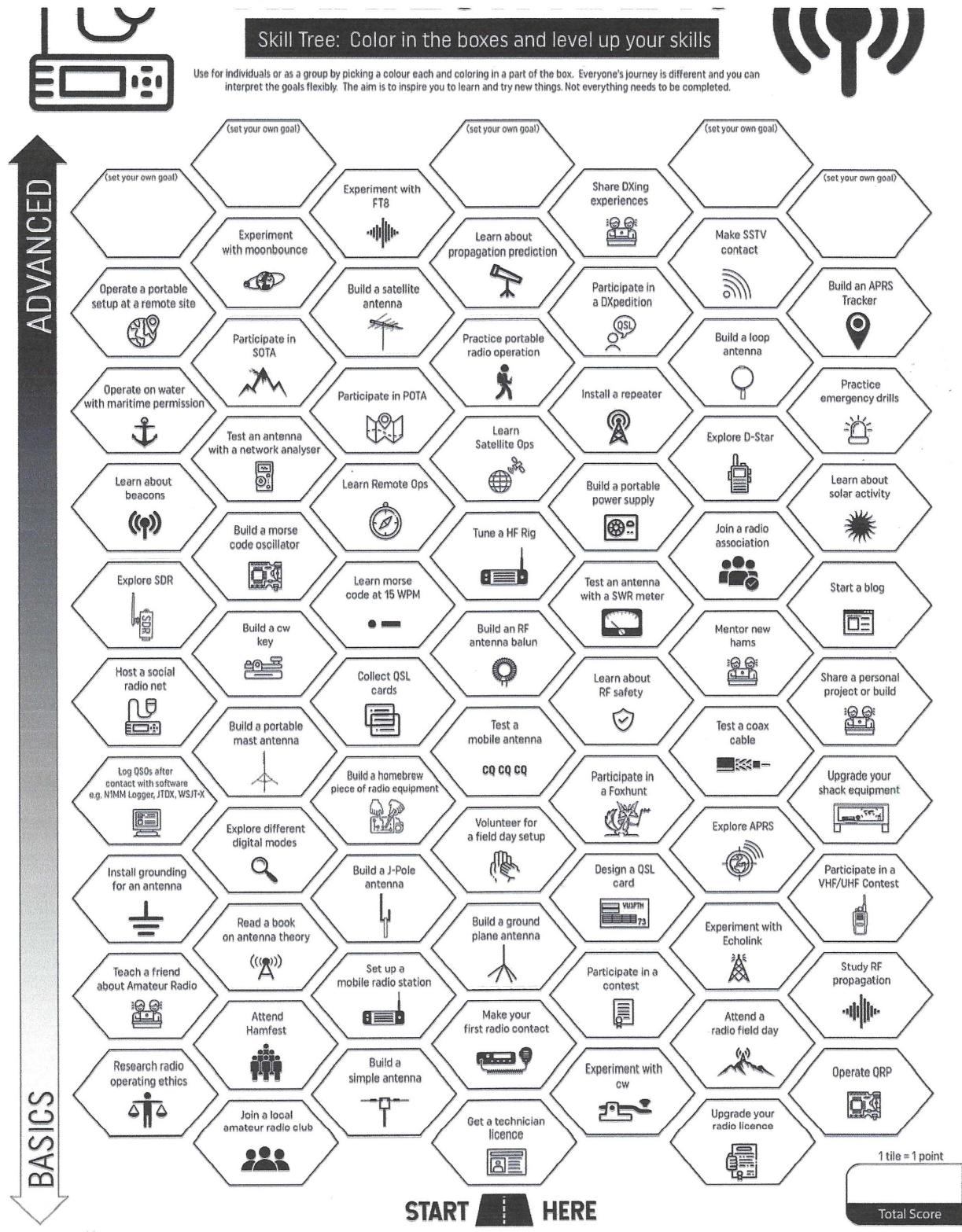
—Jerry, KE5PMK

TARC		Fund				Current Mo Total	Current Mo Budget	Prior Yr Total
		General	Savings	Hamfest	Sinking Fund			
Cash balance beg of period		5,610.88	1,073.58	1,073.58	7,118.06	13,802.52	13,803	13,976.92
Receipts								
Dues		70.00		-	30.00	100.00	110	5,820.00
Sale of radio equipment		-		-	-	-	-	685.72
Green Country Hamfest								
Raffle		-		-	-	-	-	961.00
Centennial dinner								55.00
Contribution		-		-	-	-	83	1,152.40
Interest		-		-	3.75	3.75	4	40.75
Miscellaneous		-		-	-	-	-	3.00
Total deposits		70.00	-	-	33.75	103.75	197	8,717.87
Disbursements								
Green Country Hamfest								
3 tables & 1 electric drop		-		-	-	-	-	55.00
Radio Equipment		-		-	-	-	-	1,538.34
Door prizes		-		-	-	-	-	100.00
Centennial expenditures								4,302.83
Insurance		-		-	-	-	-	619.51
PayPal fees		3.47		-	-	3.47	7	151.03
HF University		-		-	-	-	-	-
Field day		-		-	-	-	-	658.50
Ice cream social		-		-	-	-	-	162.66
Domain & Website		44.55		-	-	44.55	45	673.65
Mail Box		-		-	-	-	-	180.00
Miscellaneous		74.98		-	-	74.98	-	154.45
Christmas		-		-	-	-	-	296.30
Maker Faire		-		-	-	-	-	-
Trailer		-		-	-	-	-	-
Total expenditures		123.00	-	-	-	123.00	51	8,892.27
Transfers into fund		252.90		-	147.10	400.00		
Transfers out of fund		(252.90)		-	(147.10)	(400.00)		
Cash balance end of period		5,557.88	1,073.58	1,073.58	7,151.81	13,783.27	13,948	13,802.52
Summary by Account								
Checking		927.00		-	-	927.00		
Savings		4,476.13		1,073.58	7,111.81	12,661.52		
PayPal		154.75			40.00	194.75		
Total		5,557.88		1,073.58	7,151.81	13,783.27		

Jerome  
Weikel:  
"Digital  
NetworkingFor  
Ham Radio"  
book

## Track Your Ham Radio Skills

—via Mark WA5MA



## Glossary

ARES.....Amateur Radio Emergency Service.

ARRL.....Amateur Radio Relay League.

CD.....Compact Disc.

CQ.....Seek-You—telegraphers abbreviation requesting contact from anyone hearing.

CW.....Continuous Wave, synonymous with the practice of Morse code When you transmit Morse code using CW, you are sending bursts of unmodulated radio frequency energy that the receivers detect by offsetting the receive-frequency by a few hundred Hertz All of which is done automatically most of the time.

DMR.....Digital Mobile Radio.

DX.....Ham jargon for long distance, also a brand of gasoline for obvious reason farther on a gallon.

Elmer.....Ham radio jargon for a mentor, someone willing to help others thrive in the hobby.

EZNEC.....Easy Numerical Electromagnetics Code.

FCC.....Federal Communications Commission.

FEMA.....Federal Emergency Management Agency.

HF.....High Frequency—3 to 30 MHz.

HT.....Handheld Transceiver.

kerchunk....A technical term peculiar to the operation of repeater systems An onomatopoeia expressive of the sound heard when you briefly press the PTT of a transceiver to engage the repeater to hear if it is possible to open it for communication Don't do this; push-to-talk, announce your callsign then ask for a signal check.

LID.....Licensed IDiot: A rude or unobservant operator Those who don't learn from their mistakes We learn by doing, and if we're not making mistakes, we're not doing anything The trick is to avoid making the same mistake too many times Click on the number of this footnote to return to the text and continue reading.

MMANA.....<http://gal-ana.de/basicmm/en/>

NCO.....Net Control Operator.

OKMRC.....OKlahoma Medical Reserve Corps.

PDF.....Portable Document Format

POTA.....Parks On The Air.

PTT.....Push To Talk.

QRM.....On-frequency interference Telegrapher's Q-code abbreviation.

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QRP.....Low power 5W and below Telegraphers Q-code that says lower your power.

QSO.....Completed contact with another operator Telegrapher's Q-code for I can communicate with.

QST.....Telegrapher's Q-Code shorthand for "Calling All Stations".

QSY.....Change frequency. Telegrapher's Q-code requesting a change in operating frequency.

ROM.....Read Only Memory.

SOTA.....Summits On The Air.

SSB.....Single SideBand modulation.

SWR.....Standing Wave Ratio The ratio of transmitted energy to energy reflected back to the transmitter by a mismatched impedance Voltages generated by high SWR can destroy the power transistors of a transceiver High SWR also means that the antenna radiates less energy.

TARC.....Tulsa Amateur Radio Club.

TBD.....To Be Determined.

TRO.....Tulsa Repeater Organization.

TU.....University of Tulsa.

UHF.....Ultra High Frequency—300 MHz to 3 GHz.

URL.....Universal Resource Locator.

VHF.....Very High Frequency—30 to 300 MHz.

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- 1 LID—Licensed IDiot: A rude or unobservant operator. Those who don't learn from their mistakes. We learn by doing, and if we're not making mistakes, we're not doing anything. The trick is to avoid making the same mistake too many times. [Click on the number of this footnote to return to the text and continue reading.](#)
- 2 PDF—Portable Document Format
- 3 URL—Universal Resource Locator.
- 4 QST—Telegrapher's Q-Code shorthand for "Calling All Stations".
- 5 FCC—Federal Communications Commission.
- 6 HT—Handheld Transceiver.
- 7 PTT—Push To Talk
- 8 *kerchunk*—A technical term peculiar to the operation of repeater systems. An onomatopoeia expressive of the sound heard when the PTT of a transceiver is briefly pushed to engage the repeater to hear if it is possible to open it for communication. Don't do this; push-to-talk, announce your callsign then ask for a signal check.
- 9 CW—Continuous Wave, synonymous with the practice of Morse code. When you transmit Morse code using CW, you are sending bursts of unmodulated radio frequency energy that the receivers detect by offsetting the receive frequency by a few hundred Hertz. All of which is done automatically most of the time.
- 10 ARES—Amateur Radio Emergency Service.
- 11 DMR—Digital Mobile Radio.
- 12 TU—University of Tulsa.
- 13 SWR—Standing Wave Ratio. The ratio of transmitted energy to energy reflected back to the transmitter by a mismatched impedance. Voltages generated by high SWR can destroy the power transistors of a transceiver. High SWR also means that less energy is actually radiated from the antenna.
- 14 Elmer—Ham radio jargon for a mentor, someone willing to help others thrive in the hobby.
- 15 OKMRC—Oklahoma Medical Reserve Corps.
- 16 FEMA—Federal Emergency Management Agency.
- 17 QRM—On-frequency interference. Telegrapher's Q-code abbreviation.
- 18 NCO—Net Control Operator.
- 19 TBD—To Be Determined.
- 20 POTA—Parks On The Air.
- 21 SOTA—Summits On The Air.
- 22 CQ—Seek-You, telegraphers abbreviation requesting contact from anyone hearing.
- 23 QRP—Low power 5W and below. Telegraphers Q-code that says lower your power.
- 24 TRO—Tulsa Repeater Organization.
- 25 QSY—Change frequency. Telegrapher's Q-code requesting a change in operating frequency.
- 26 DX—Ham jargon for long distance, also a brand of gasoline for obvious reason—farther on a gallon.
- 27 QSO—Completed contact with another operator. Telegrapher's Q-code for I can communicate with.
- 28 SSB—Single SideBand modulation.

- 29 VHF—Very High Frequency—30 to 300 MHz.
- 30 UHF—Ultra High Frequency—300 MHz to 3 GHz.
- 31 HF—High Frequency—3 to 30 MHz.
- 32 EZNEC—Easy Numerical Electromagnetics Code.
- 33 CD—Compact Disc.
- 34 ROM—Read Only Memory.