

Veterans'
Day Issue

PLANO AMATEUR RADIO KLUB

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NOVEMBER

WWW.K5PRK.NET

2025



In This Issue

- Army MARS
- Hamclock
- Nearby Repeaters In Oklahoma
- **Battery Best Practices**

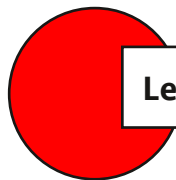
PARK HERE

Officers

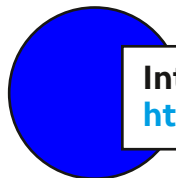
(your answers begin here)

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EXPERIMENT AND HAVE FUN WITH YOUR RADIO



Learn more about the club at <https://k5prk.net>



Interact with the club at
<https://www.facebook.com/groups/k5prk>



Have a groups.io conversation with the club at
<https://k5prk.groups.io/g/main>

Are you ready to read the content in the newsletter? It's all technician accessible.

**YOU HAVE BEEN DEPUTIZED AS ROVING
JUNIOR NEWSLETTER REPORTER
EXTRAORDINAIRE!**

Go photograph, experiment, solder, attempt to antenna your lawn chairs. Just write it all down and send the information to
newsletter@k5prk.net

PARK REPEATERS

The Plano Amateur Radio Klub operates five repeaters, which are located in Allen, Texas about 180 feet above ground level. All licensed amateur operators are welcome to join us on the air.

Our repeaters are open.

147.180 MHz + PL 107.2
K5PRK VHF
Voice Repeater

444.250 MHz + PL 79.7
K5PRK UHF
Voice Repeater

441.575 MHz +
DStar UHF
Digital Voice Port B

1295.000 MHz - 20.000
DStar 23cm
Digital Voice Port B

1255.000 MHz
DStar 23cm Digital Data

Broadcastify
K5PRK 444.250
K5PRK 147.18

If you notice problems with any of the club's repeaters, contact
communications@k5prk.net
via email with a detailed description of the issue.

FROM THE PRESIDENT

By Mike Tharp
president@k5prk.net

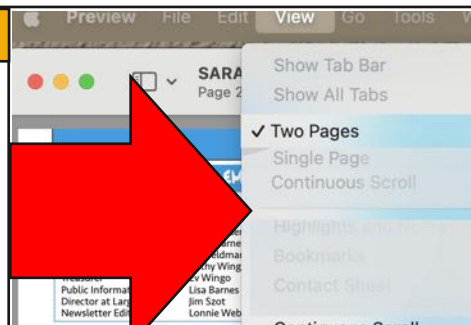
Mike Tharp (KG5TJF) holds a General class license. Mike's on-air activities are primarily focused on modern communications, Digital Mobile Radio (DMR) along with VHF and UHF bands for local and regional contacts.

Mike is interested in the Do-It-Yourself (DIY) aspect of the hobby, experimenting with homebrew antennas and leveraging Raspberry Pi projects. Mike's curiosity extends to exploring the potential of Artificial Intelligence (AI) to innovate amateur radio. For example, Mike recently used the Gemini platform to research the feasibility of creating a Small Language Model (SLM) designed to automate Morse code responses by integrating a decoder and a Raspberry Pi.

Mike is also interested in the public service functions of the HAM radio community. Mike serves as the club's coordinator for the annual ARRL Field Day event and is a member of the Collin County ARES storm spotter team, part of a team providing communication support during severe weather events.

More recently, Mike has taken on a new technical challenge by delving into weather balloon radiosonde tracking, utilizing Software Defined Radio (SDR) to intercept and decode atmospheric data. When

Mike is not on the radio, he can be found working on another kind of vintage electronics project: the ongoing rehabilitation of a 1961 Seeburg jukebox. Mike also enjoys homebrewing and playing the violin. 🎵



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***Fourth Thursday Lunch:
is cancelled for
Thanksgiving Day***

***Next Meeting:
November 17, 2025***

LETTERS TO THE EDITOR

By KG5WHQ
newsletter@k5prk.net

Veterans, I tip my hat to all of you. You are the real deal Americans we all aspire to be. The silent citizens who bear the scars and exhaustion of war and peace. Bless you each and every one.

I am your newly elected newsletter editor. Add to that I am your previous interim newsletter editor.

My amateur class is extra and I also volunteer as a VE for the club and area VE teams. When you decide to upgrade your license class, find one of us to give you assistance.

Being a bearer of some big injuries, myself, I have on occasion leaned on programs that we taxpayers fund. All that is expected in return is that we volunteer where and when we are able. And there is my motivation along with the satisfaction of churning out a product I am proud of, sans typos.

Ah, would that I had a Ctrl+Z!

With the upcoming year, I am looking for younger, healthier volunteers that can help older hams. Ham Helping Hams has dwindled and I would like to see a brave soul take on manning it and a few smart souls doing the work of keeping us all up and running.

Email me with your availability and let's talk about it. 📧

RE:Email QSL Cards

My usual QSL methods are LoTW, eQSL, QRZ, and direct. Lately I've received a number of Email QSL cards, which has made me wonder about using an email QSL card service myself.

Does anyone here use an email QSL card service and what is your opinion of it relative to cost, efficiency, etc.

Thanks,
Tim Johnson

RE:Email QSL Cards

Hi Tim, I don't send eQSL cards, I send out my own. However, I do receive eQSL cards on a daily basis. I have saved them to a folder and certain ones go into my changing screen background folder.

I delete most of them because the card is usually of low quality. I don't know what the service cost is.

I have noticed that 99% of them are for contacts made 2 years ago. I have only seen 1 eQSL card that had a 2025 date on it. You usually get what you pay for, but there are times when I am surprised.

If you do decide to go with them, let everyone know about it.

73,
Michael K5MFP

RE:Email QSL Cards

Tim,

Most email QSLs I have received lately were generated by QSL World. QSL World is free and was started to facilitate the mapping of your QSOs.

The QSL function was a secondary capability and had

some serious problems at first. It would literally spam QSLs, sending multiples for the same contact.

That issue got fixed, but many folks I know still treat these as spam and trash them without even looking at them. The confirmation response process I also find to be a bit cumbersome and once confirmed, they still don't provide credit for any awards. At least paper cards can be checked for credit.

I primarily utilize LOTW and eQSL and keep those current. I occasionally update QRZ and ClubLog as well. For now at least, I think the email QSL is a waste of time and even worse, it may prove to be an aggravation for the recipient.

73,
Stan

RE: Repeater Activities

Hi All,

We had some issues with getting echolink working tonight so I asked Andrew Koenig for some help with it since the microwave link to Palisades still works.

While we were working on it he asked if he could update the voice quality which I see no problem with because it costs nothing and can be changed nearly instantly.

The voice has been updated as of tonight so if we get any feedback on it please pass it my way, I'll be happy to tune it as needed.

I'm also going to be working with him to simplify our networks and their integration to each other for easier management from the admin

networks.

Thanks,
Miranda Schwarck KE5YZP

RE:Found ya!

Gives new meaning to "lonely
at the top".....!

Brian Trant - KF5VFM



Aw, you got me for that last
article! 📶

K5MFP Michael Payne
7900 Maiden Lane
Frisco, TX 75035
EM130d

Keep on Hammin'...

No matter where
you go,
there you are

QSL: PSE THX

Confirming QSO with	Date Day Month Year	Time UTC	Freq MHz	RST	Mod 2-wa

Michael Payne K5MFP shares his QSL card. What does your QSL card
look like?

MINUTES FROM THE OCTOBER GENERAL MEETING



**October 20, 2025
General Meeting Minutes**

Call to Order at 7:05 p.m.

Officers Present:

President
Vice President
Secretary
Treasurer
Newsletter Editor
Communications Director

Officers Absent:

Public Relations Director
Activities Director
Webmaster
VE Coordinator

There were 23 members present and 2 guests.

President's Report:

Election results presented.
Thanked members for their support over the past 2 years.
Passed the gavel to new President.

Vice President Report:

Presented the upcoming meeting programs:
Nov.—Collin County Judge Chris Hill
Dec.—Christmas Party

Secretary Report:

Presented the results of the electronic ballot thru Ham Club On-Line and votes cast at the meeting.

Treasurer's Report:

*****Check hamclubonline for treasurer's report*****

** Funded projects are to be "unfunded" and those funds are to be designated to the general funds. Communications Director will submit a new proposal for repeater maintenance and one for current committed projects.

Public Relations Report: Absent—No current report

Communications Report:

Discussed progress and future plans on hospital and interconnection capabilities for the various repeaters and projects.

Discussed the possibility of adding a Yaesu System Fusion repeater or to replacing the current D-Star repeater with a Fusion repeater. Also wants to survey members on whether

APRS or packet is preferred in addition to repeater preference. Survey to be formulated and sent via Ham Club On-line.

Activities Director: Absent—No current report.

Usual monthly activities reviewed as well as Sidewalk Sales at McKinney and Garland

Newsletter Editor:

Need biographies for new Board Members for next newsletter.
Hams Helping Hams needs a new coordinator.

Webmaster Absent—No Report

VE Coordinator Absent

1 person tested and upgraded license

New Business:

New Officers were announced and election results certified:

President—**Michael Tharp KG5TJF**
Vice President—**Bruce Cameron K6BWC** (confirmed by membership vote)

Secretary —**Damon Koch K5OCH** (confirmed by membership vote)

Treasurer—**B. J. Watkins K5BJW**
Newsletter Editor—**Lonnie Webb KG5WHQ**

Activities Director—**Asif Ahmed A5SIF** (Volunteered to be appointed and confirmed by membership)

Survey to be published regarding the possibility of adding a Yaesu Fusion Repeater in addition to the Icom D-Star repeater or replacing the D-Star repeater with a Fusion repeater.

Discussion regarding the \$1,729.51 that is carried on the books as "Pre-Approved Funded Projects". These funds have not been disbursed in at least 2 years and it is unknown what the exact amounts are committed for each project. Board suggests to "uncommit" these funds and have Communications Director submit new budgets for repeater maintenance as well as one for currently committed projects for approval by the membership.

Suggestion by the Board to increase this years funding for Christmas party raffle prizes to \$1,500.00. Motion made by **Nell Bartels** and seconded by **Bruce Cameron**, passed unanimously.

Board announced a donation approval to All-Star Link of \$12.00 per active node (we have 3 currently) for a total of \$36.00 in January, 2026 to help defray their development and operations costs.

Welcome to new member – **Greg Olson WA5ZPX**

Presentation: Ham 2.0 schedule but speaker was "no show".

Adjourned at 8:30 p.m. 📶

ADDITIONAL INFO ON HAMCLUBONLINE.COM

Wondering about the Treasurer's report? Missing something from the minutes? Go log in at HamClubOnline.com using the email address you already gave the secretary and set a new password if you need to. 📶



MINUTES FROM THE BOARD MEETING



Plano Amateur Radio Klub Board of Directors Meeting November 3, 2025

Present:

Mike Tharp KG5TJF, President
Bruce Cameron K6IL, Vice President
Damon Koch K5OCH, Secretary
B. J. Watkins K5BJW, Treasurer
Rob Forson K5WFR, Public
Relations Director
Asif Ahmed K5SIF, Activities
Director
Lonnie Webb KG5WHQ, Newsletter
Editor
James McCormick KG5KBP,
Webmaster
Miranda Schwark KE5YZP,
Communications Director
Tim Johnson K5TCJ, Immediate Past
President

Meeting Start: 7:08 PM

President

Welcome to new board members and round table introductions.

Vice President

Upcoming Meeting Programs:
November – Collin County Judge Chris Hill
December – Christmas Party
January – Amateur radio from a young ham's perspective

Secretary

No report – transition to new secretary.

Treasurer

No report – transition to new treasurer. Balances from the October general meeting:

*****Check hamclubonline for treasurer's report*****

** Funded projects are to be "unfunded" and those funds are to be designated to the general funds. Communications Director will submit a new proposal for repeater maintenance and one for current committed projects.

Communications Director

Repeater Trustee transition paperwork sent.
Repeater and hardware change summary will be posted to the club newsletter.

Newsletter Editor

Lonnie needs submissions for next newsletter, including new board member information.

Webmaster

James needs officer updates and biographies for the website.

Activities Director

Asif is reaching out to other area clubs for activities.

Public Relations

No Current Projects

Old Business

Reservation for Christmas Party has been made. Location is Spring Creek BBQ in Richardson. Reservation is for December 15th from 6:00 p.m. to 9:30 p.m. Meal on your own beginning at 6:00 and meeting/party to begin at 7:00. The list of items for the raffle is already impressive and will be finalized at the December board meeting.

New Business

The outstanding balance at HRO for gift certificates is being addressed. ***Gift certificate recipients are encouraged to transfer the gift certificate balance from the K5PRK club account to their personal account at HRO.*** That will get the outstanding balance off the club books.

The club bank account signature card needs to be updated and will be scheduled soon.

Streaming the club meetings was brought up, but determined to not be feasible at this time.

Adjourned at 8:00 PM 📶

BATTERY CHARGING BEST PRACTICES FOR AMATEUR RADIO OPERATORS

By Greg Evans, K5GTX via Tim Johnson

Protecting Your Investment, Extending Battery Life

Good Evening everyone. Tonight, we're talking about something that often gets overlooked but is absolutely critical: how we charge our batteries. Whether it's nickel, lithium, or lead-acid, the charger is the true guardian of your battery. A poor charger can cut battery life in half, while the right one can keep your gear running reliably for years.

Nickel-Based Batteries

Let's start with nickel-based batteries—NiCd and NiMH. These are still common in handheld radios. The key here is temperature. If your battery gets hot during charging, that's a red flag. NiCd cells suffer from memory effect, so once a month, give them a full discharge and recharge. NiMH cells are less prone, but still benefit from a full cycle every few months. Always use a smart charger—ideally one with delta-V detection. And remember: a NiMH charger can handle NiCd, but not the other way around.

Lithium-Ion Batteries

Lithium-ion is everywhere—HTs, GPS units, laptops. The good news: no memory effect. The bad news: they're sensitive. Overcharging or over-discharging can permanently damage them—or worse, cause a fire. Always use chargers designed for lithium cells. For storage, keep them at about 40 to 60 percent charge in a cool place. That's the sweet

spot for long life. And never leave them in a device that draws a trickle current when off.

Lead-Acid, AGM, and Gel

Now let's talk about the big ones—lead-acid, AGM, and gel. These are common in base stations and backup power. Rule one: keep them charged. Lead-acid hates being left discharged. Rule two: avoid deep discharges, especially with starting batteries.

Batteries are expensive, but good charging habits are free.

For charging, never exceed 20% of the amp-hour rating. A 100AH battery? No more than 20 amps. Smart chargers are essential here—look for three-stage charging: bulk, absorption, and float. AGM batteries are a bit more forgiving, but gel cells are picky. They need chargers specifically tuned for them.

Practical Tips

Here are some quick takeaways:

- Label your chargers and batteries.
- Don't leave nickel or lithium packs in radios for long storage.
- Invest in smart chargers—they pay for themselves by extending battery life.
- And finally, remember: batteries are expensive, but good charging habits are free.

Flying with Batteries

Before we wrap up, let's touch on something important for

anyone who travels with their gear: airline battery restrictions. The FAA and TSA have strict rules. Alkaline and nickel batteries are generally fine in both carry-on and checked bags. But lithium batteries are a different story.

If your lithium-ion pack is under 100 watt-hours—like the ones in handheld radios, laptops, or power banks—it must go in your carry-on, never in checked luggage. Larger packs between 100 and 160 watt-hours—like those used in drones or professional cameras—require airline approval, and you're limited to two spares. Anything bigger than that is prohibited on passenger flights.

Lithium-metal cells, like those in watches or cameras, are allowed if they're small, but larger ones are banned. Power banks and spare lithium batteries must always be in your carry-on, with the terminals protected from short circuits.

Lead-acid batteries are only permitted if sealed and under 100 watt-hours, or if they're part of mobility equipment with airline approval.

So the rule of thumb is simple: carry lithium spares in your hand luggage, protect the terminals, and always check your airline's policy before you fly. It's one more way to keep your batteries—and your trip—safe.

Conclusion

So the next time you think about your radio setup, don't just focus on the antenna or the rig. Think about the humble charger—it's the unsung hero that keeps your station alive. 

FOURTH THURSDAY LUNCH



Poor Richard's Cafe at 11:30a on the Fourth Thursday of the month. We who are able to get away join up and dine on the fine local diner food.

It's a fun time and topics are random.
(It's also where I get a lot of ideas for ham radio cartoons!) 📻

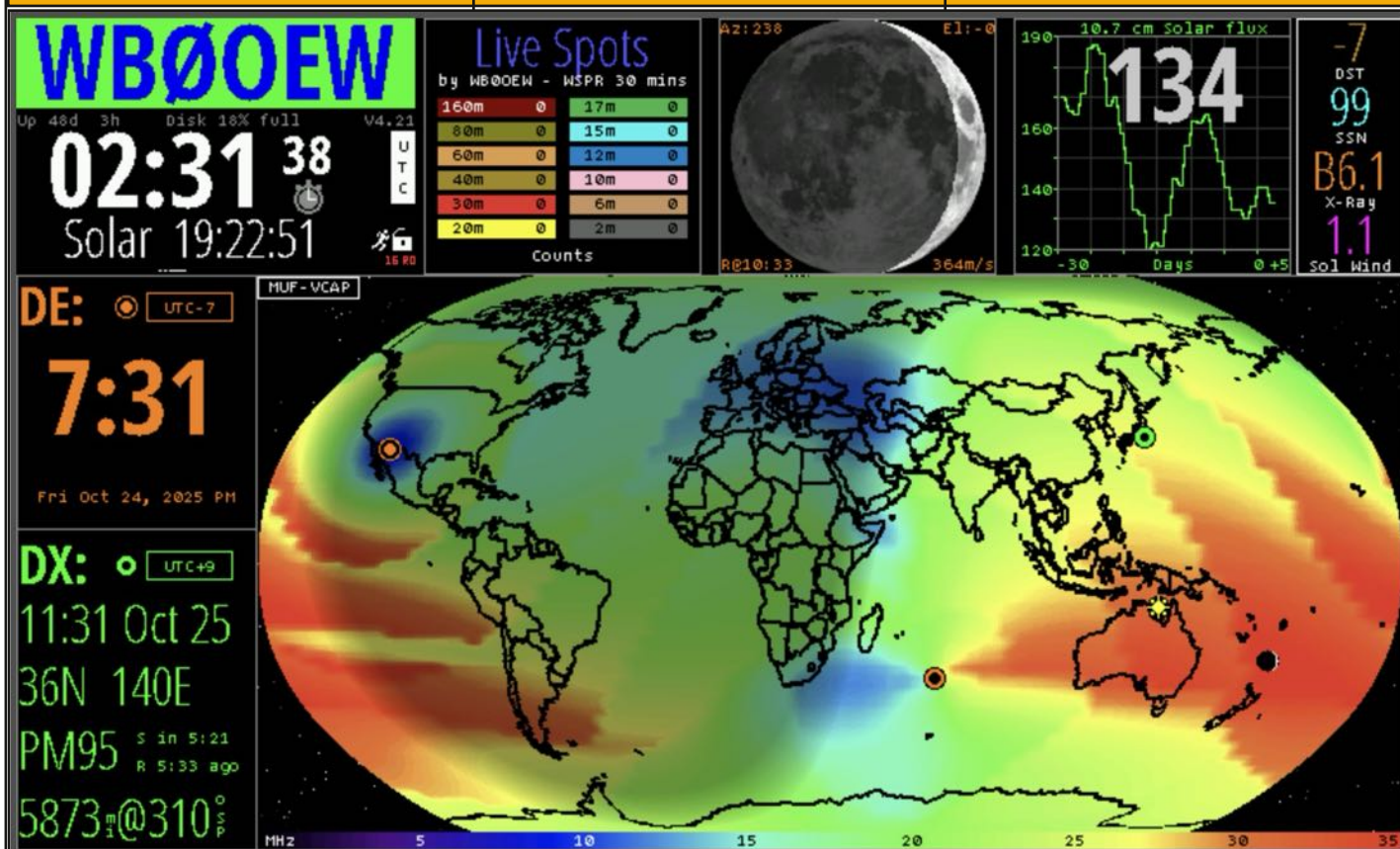
*Fourth Thursday Lunch:
is cancelled for
Thanksgiving Day*

MIKE CALL

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HAMCLOCK TUTORIAL: INSTALLING HAMCLOCK ON WINDOWS



By KG5WHQ

HamClock is a popular analog-style clock and information display tool designed primarily for amateur radio (ham radio) operators. It shows local and UTC time, a world map with the gray line (terminator), solar data (like SFI, A/K indices), DX spots, and more. Unfortunately, the official HamClock software from ClearSky Institute is built for Linux (e.g., Raspberry Pi) or ESP32 microcontrollers and does not run natively on Windows.

Go to the Microsoft Store App (Easiest: A simplified "Gray Line Ham Clock" version for quick setup).

All methods are free and work on Windows 10 or 11 (64-bit). You'll need an internet connection for downloads. Prerequisites

- * A Windows PC with at least 4GB RAM (8GB+ recommended for Docker/WSL).

- * Administrator access to install software.

- * For ham radio features (e.g., DX clusters), you'll need your callsign and possibly API keys from sources like reversebeacon.net (set up post-install).

This is a dedicated Windows app called "Gray Line Ham Clock" that's inspired by HamClock. It's not the official version but includes core features like large clocks, gray line map, solar indices, and DX spots. Great for beginners.

Steps:

1. Open the Microsoft Store:
 - * Search for "Microsoft Store" in the Windows Start menu and launch it.
2. Search and Install:

- * In the Store, search for "Gray Line Ham Clock".

- * Click the app (published by a third-party developer; free).

- * Hit Get or Install. It will download and install automatically (about 50MB).

3. Launch and Configure:

- * Search for "Gray Line Ham Clock" in the Start menu and open it.

- * On first run:

- * Enter your callsign (optional, for personalized display).

- * Choose font colors for time/date.

- * Enable features like DX spots (filter by band/mode) or WWV reports.

- * Customize via the settings

Note: Some satellite data could be delayed/blocked during the government shutdown.

menu: Add solar flux, gray line globe, or band-specific spots.

* Pin it to your taskbar or desktop for quick access. It runs fullscreen or windowed.

4. Troubleshooting:

* If DX spots don't load, check your internet and enter a DX cluster URL (e.g., from dxcluster.info).

* Updates happen automatically via the Store. This method takes ~5 minutes.

Post-Installation Tips

* Customization: enable ham-specific features like POTA/SOTA alerts, rotator control, or VOACAP graphs via the menu.

* Performance: HamClock is lightweight; it sips CPU but fetches live data, so stable Wi-Fi helps.

* Support: Official docs at clearskyinstitute.com/ham/HamClock. 

**SEND
PHOTOS OF
YOU AND
YOUR RADIO!**

Press Release
(Orlando Florida)HamCation 2026,
February 13-15

Since 1863 only 3,511 men and 1 woman have been awarded The Medal of Honor. Today there are only 60 living Medal of Honor Recipients. The average American has a 0.000018% chance of meeting a Medal of Honor Recipient in person. Everyone who attends HamCation 2026 will have the honor to meet a living Medal of Honor recipient! FOR THE FIRST TIME EVER A LIVING MEDAL OF HONOR RECIPIENT WILL BE ATTENDING HAMCATION AND HE HAS PASSED THE EXAM TO BECOME A LICENSED AMATEUR RADIO OPERATOR AND WILL MAKE HIS FIRST HAM RADIO CONTACT AT HAMCATION 2026!

Donna W5SML - Don "Doc" Ballard MoH
COL Don "Doc" Ballard MoH USA RET (HM2 USN in Vietnam where he earned The MoH) and his "Elmer" (Instructor) Sam McGlynn NM5N Lt COL USAF RET along with Donna Snow King W5SML, Former Star of the Hit TV Show "Texas Flip N Move" and author of 3 books. The latest, a Novel about Texas Rodeo Kids solving a mystery with the help of their Ham Radios. Along with her OM (Old Man) Rex W5EAK Lt Cmdr USN RET will be together in their

booth. A portion of proceeds from sales go to COL Ballard's Foundations providing funerals and burials at no cost to indigent Veterans and First Responders.

Donna W5SML - Rex W5EAK

Sam NM5N - Rex W5EAK and Ronan the wonder dog

For further information, I can be reached at: 940-808-8665

Semper Fortis and God Bless Texas, Rex

E.A. "Rex" King, III

Snow-King Ranch

Non Sibi Sed Patriae

Rex's Page: <http://www.qrz.com/db/W5EAK>

Donna's Page: <http://www.qrz.com/db/W5SML>

Founding Advisory Board Member
Hershel W. "Woody" Williams MoH
USMC RET Foundation: <http://www.WoodyWilliams.org>

Ambassador Airpower
Foundation <http://www.AirPowerFoundation.org>

Member Fort Worth Airpower
Council <http://www.fwapc.org>



**YOU KNOW HOW TO DO WHAT?
TELL US ALL HOW!**

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JUST EMAIL YOUR KNOWLEDGE OVER TO NEWSLETTER@K5PRK.NET**

6M ANTENNA DIY (FOR TECHNICIANS, TOO!)

By KG5WHQ

This is based on a tutorial by Hayden VK7HH and owes a bit to salty Walt's K4OGO vertical antenna series.

Let's build a really easy vertical antenna for the 6-meter band, which is 50-54 MHz. This is an end-fed half wave dipole antenna also known as a near-field electrically driven coaxial dipole. Materials: you need some RG-58 coax cable, probably a little more planning is in order for the distance from the antenna and the operating location. No soldering required for this one but you might choose to use some heat shrink to seal it up.

Six meters is going to open up with a vengeance in November, but it'll work great if you have an HF or VHF rig that covers the band. This is handy if you have a TK-11 Quansheng "Kong" or it's siblings at other manufacturers.

Overview

The design is a coaxial dipole. In my application, I take about 6 to 7 meters of RG-58 coax. Like most of Salty Walt's demonstrations, namely of his 20m vertical, the top half is the inner conductor (stripped of the outer sheath and braid), which is a quarter-wave section. For 50 MHz, that's 54.17 inches.

Then the bottom section is another quarter-wave, but slightly shorter at 52.99 inches. When you tune the antenna you likely will remove some of that to deal with velocity factor of

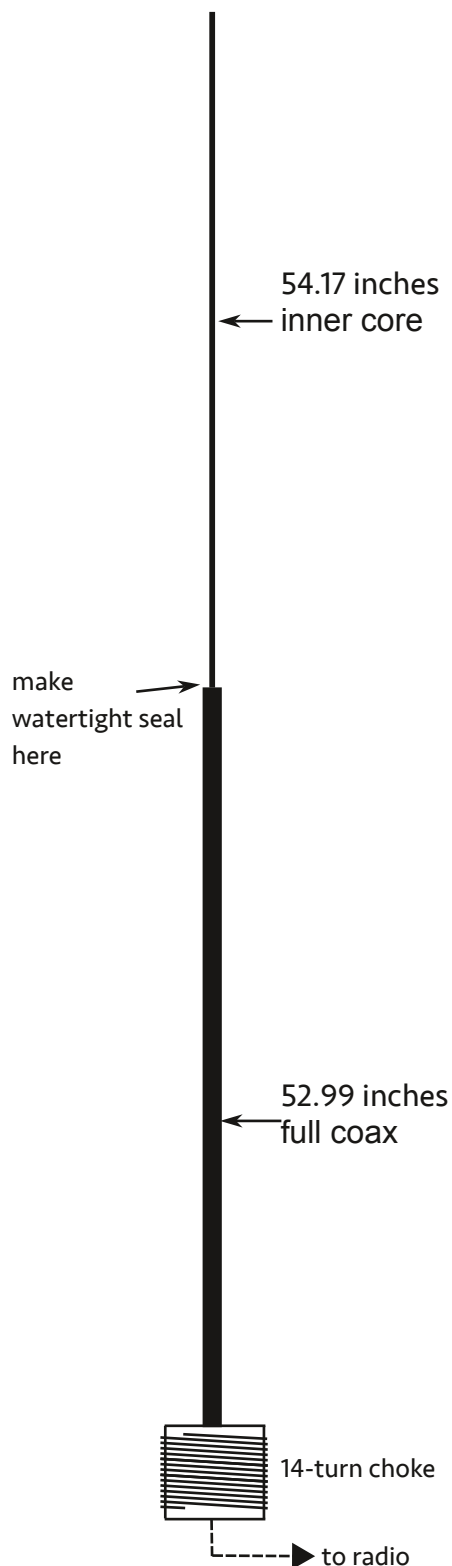


Figure 1. 6m DIY antenna.

SWR

SWR in the context of ham radio stands for Standing Wave Ratio (also known as Voltage Standing Wave Ratio, or VSWR). It is a key performance metric that measures how efficiently radio frequency (RF) energy is transferred from a transmitter to an antenna (and vice versa).

wire and tuning.

To get at the inner conductor, strip the coax sheath carefully. Preserve the insulating plastic around the copper (if there is any) but pull away the braid for what will be the top conductor. That is keep the dielectric in place.

After tuning we will seal up where the top conductor meets the bottom conductor with heatshrink. You want that seal to be tight when we do it and wrap in self-amalgamating tape to protect from the Texas Sun(TM). We will finish with this step AFTER tuning.

At the bottom of the initial bottom conductor piece, we need a choke to help with emissions and reflectivity. In other words, to prevent RF from flowing back down the outside. Wind 14 turns tightly on a 2-inch PVC segment. Anchor that with tape.

Detailed Steps

1. Start with your RG-58. Measure and cut the top sheath and braid to inner 54.17 inches from the end, leaving the wire core and dielectric. (If your cable has only paper dielectric it'll work okay.) Strip the whole

outer jacket and braid completely from your cut to the end of the wire.

2. For the bottom conductor, measure 52.99 inches of the unstripped coax.

3. Feed the measured amount of line IN through a hole in the side of the PVC segment.

4. Drill another hole for the wound feed line to pass back IN after 14 turns.

5. Wind the coax just after the hole in the PVC. Make 14 tight coils on your PVC segment. Secure it with zip ties or tape. For the sake of Texas SUN, wrap the entirety of the coil so it cannot be easily spread apart. Keep it tight.

6) The feed line emerges from the PVC and is ready to connect to your radio.

If you are going to place it in PVC pipe for a mast outside, assemble it that way (non-permanently) with caps before you tune. It will affect your results by shortening the antenna.

Conclusion

If we did this right, your outlay should be under \$10. Especially, if you have scraps.

Tune for an SWR of 1.2 to 1 across 50.1 to 50.3 MHz. Perfect for WSPR or SSB. If it's off, just trim the lengths a bit. Maybe 1/8 inch between tests. 📡

SWR

Key Explanation

* What it measures: The ratio of the maximum voltage to the minimum voltage along a transmission line (e.g., coaxial cable) due to reflected RF power.

* A perfect match (no reflections) results in an SWR of 1:1.

* Higher SWR values (e.g., 2:1 or 3:1) indicate mismatches between the transmitter's output impedance and the antenna system, causing power loss as heat in the line.

Formula

$$SWR = (1 + |G|) / (1 - |G|)$$

Where

$$G \text{ (reflection coefficient)} = (Z_L - Z_0) / (Z_L + Z_0)$$

* Z_L : Load (antenna) impedance

* Z_0

: Characteristic impedance of the transmission line (typically 50 ohms)

Common SWR Values and Implications

SWR Ratio	Power Loss (Forward Power)	Acceptability in Ham Radio
1:1	0%	Ideal (perfect match)
1.5:1	~4%	Excellent
2:1	~11%	Good (most rigs tolerate)
3:1	~25%	Marginal (tune/adjust)
>5:1	>36%	Poor (risks equipment damage)
• Safe threshold: Most ham transceivers operate safely up to 2:1 or 3:1, but higher values can reduce output power,		

overheat components, or trigger protective shutdowns.

How Hams Use SWR

1. Tuning antennas: Measure SWR at the operating frequency (e.g., 14.200 MHz for 20m SSB) using an SWR meter or antenna analyzer (e.g., MFJ-259, NanoVNA).

2. Troubleshooting: High SWR indicates issues like:

* Incorrect antenna length/cut.

* Faulty coax/feedline.

* Poor grounding.

* Weather-related changes (ice/snow on antennas).

3. Band-specific tuning: SWR varies across frequencies; aim for lowest at your target band edge.

Practical Tips

* Measure at the source: Place the SWR meter as close to the antenna as possible for accurate readings.

* Tools: Built-in rig meters, external meters, or apps with SDRs.

* Fixing high SWR:

• Issue • Solution

• Antenna too short • Lengthen elements

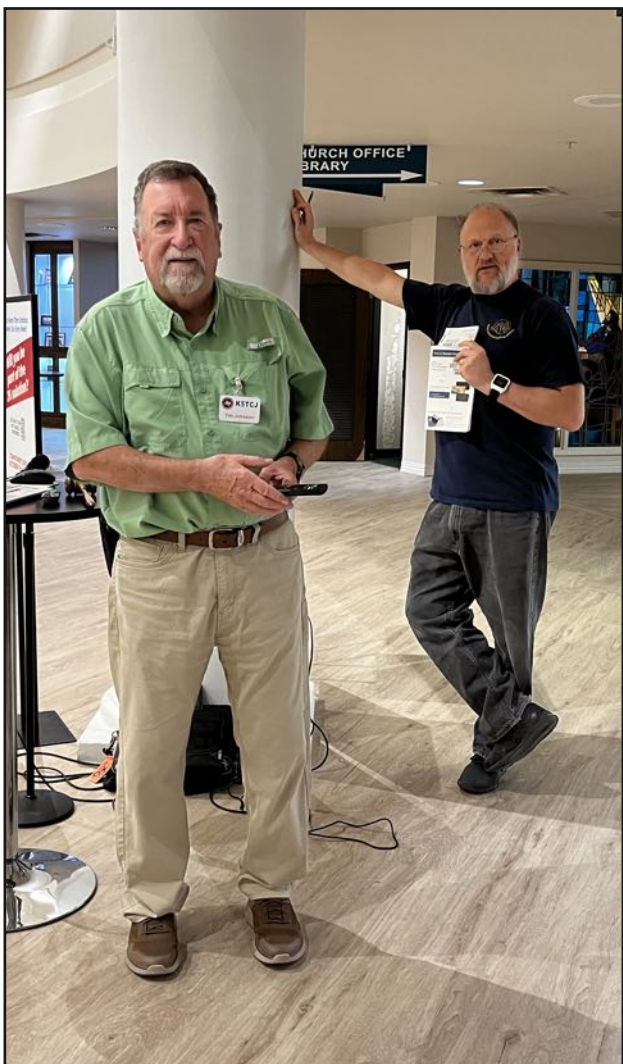
• Antenna too long • Shorten elements

• Feedline damage • Replace coax

• Balun needed • Add 1:1 current balun
 SWR is fundamental to efficient, safe ham radio operation—low SWR = maximum radiated power and minimal equipment stress. 📡

THERE IS NO BETTER WAY TO GET RADIO EXPERIENCE THAN TO VOLUNTEER TO BE NET CONTROL BEFORE WEDNESDAY!





ARMY MARS TODAY AND INTO THE FUTURE

INTRODUCTION TO ARMY MARS

Military Auxiliary Radio Service (MARS) is an Army sponsored program that organizes, trains, and utilizes Federal Communications Commission (FCC) licensed amateur radio operators, as military Auxiliarists, to contribute to and support the Department of Defense (DoD). Army MARS is made up of private citizen volunteers who employ their own High Frequency (HF) radio stations in support of the DoD and Services. These individuals are organized into a military auxiliary, assigned internationally recognized U.S. Army radio call signs and operate on designated military radio channels. You do not have to have been a member of any military branch of service to become a MARS auxiliarists.

MARS Auxiliarists are in communities throughout the United States, its territories and possessions and serve as the principal interface between the DoD and licensed Amateur Radio operators in local communities. During a catastrophe and the immediate aftermath, local amateur radio stations are often the only source of communication, news, and information in the affected area.

Army MARS Auxiliarists are HF radio Subject Matter Experts and members are expected to mitigate risk in cyberspace, maintain operational and cyber security, recover quickly from a cyber-incident, utilize type three encryption, as well as establish reliable,

military interoperable communications over long distances using HF radio when access to cyberspace has been impaired or denied. MARS does not use VHF or UHF communication capability. The communication skills and procedures needed to support the DOD are subject to change at any time. In providing this potential broad range of support, MARS Auxiliarists do not deploy. Auxiliarists provide the contingency of HF network connectivity from their home stations. While many of our MARS members wear multiple hats in their community as radio operators, MARS offers another opportunity in support of that mission. MARS supports DoD Humanitarian Assistance and Disaster Relief (HADR) efforts by interfacing with Amateur Radio stations in disaster areas, or other Amateur Radio stations that are in contact with the disaster area, to obtain information concerning the conditions, impact and extent of the disaster, and other information pertinent to coordinating a possible U.S. HADR response by interfacing with members of the Amateur Radio Service in the communities throughout the United States, and to process situational awareness information products for DoD.

ARMY MARS Membership

Individual MARS Membership is open to civilian, volunteer Amateur Radio operators who desire to support the United States' defense related activities utilizing

their Amateur Radio station.

Qualifications

Individuals applying for ARMY MARS membership must meet the following minimum requirements:

- Eighteen Years of age or older
- Citizen of the United States or lawfully admitted to the United States for permanent residence under 8 USC Chapter 12
- Hold an FCC Amateur Radio license (any class)
- Agree to follow all rules and procedures prescribed by the Chief Army MARS and have a desire to provide voluntary communications support to the defense of the United States
- Have no prior record of being terminated for cause by another Service MARS program
- Agree to the membership agreement, privacy statement, and non-disclosure statement in the Army MARS membership application
- Able to pass a background check, ie: Of good moral character, no felony convictions, or under indictment or information in any court for a felony, no associations with known terrorist organizations, not an unlawful user of illicit drugs, has not been discharged from the Armed Forces for other than honorable conditions, has not been terminated for cause by any MARS service,

and has not been declared mentally incompetent. ARMY MARS members are expected to meet a minimum, ongoing training requirement to retain their skills. A minimum of 72 hours per year (optimally spread over 18 hours per quarter) and active participation in at least one national level exercise is required of MARS members to retain membership. You will need to have a radio station capable of transmitting at least 100 watts and capable of being modified to operate between 2-30 MHz on both SSB voice and MIL-STD 188-110A serial PSK mode. A computer system connected to the radio equipment capable of operating the supplied messaging software, for drafting, sending and receiving required messages. The Motivation to Serve Army MARS is a unique activity for most people, requiring a great deal of personal investment for very intangible, perhaps even esoteric personal reward. MARS members do not receive surplus government equipment, nor are they provided with radios or reimbursement. Most MARS members find their service rewarding with the knowledge they are performing a patriotic duty doing something positive that is of essential value to their nation's defense. Does this sound like you? Then we welcome you into the Army MARS community. The MARS application below is the first step.	To Join Army MARS email Bill Drake. For questions contact Bill Drake at TEXAS.2025@PROTON.ME 	
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OKLAHOMA REPEATERS

ORSI District	County	City	Output	Input	CTCSS	Repeater	Trustee	Sponsor	ORSI District	County	City	Output	Input	CTCSS	Repeater	Trustee	Sponsor
NE	CHEROKEE	Fl. Gibson	444.8	449.8		N5QP	N5QP	WASVMS	NW	LOGAN	Guthrie	147.105	147.705		WKSU	WKSU	WKSU
NE	CHEROKEE	Fl. Gibson	442.125	447.125		N5QP	N5QP	N5QP	NW	LOGAN	Seward	145.17	144.57	100	KASLSU	KF5AQR	KF5AQR
NE	CHEROKEE	Muskogee	147.33	147.93	88.5	N5QP	N5QP	N5QP	NW	LOGAN	Seward	442.075	447.075		KASLSU	KASLSU	KASLSU
NE	CHEROKEE	Tahlequah	147.24	147.84		N5ROX	N5NRL	EMERG. NET	NW	MAJOR	Fairview	444.725	449.725		N5RHO	N5RHO	N5RHO
NE	CHEROKEE	Tahlequah	442.225	447.225	88.5	N5ROX	N5NRL	Emerg Net/TARC	NW	MAJOR	Fairview	145.45	144.85		WKSU	WKSU	MCARA
NE	CRAIG	Big Cabin	443.825	448.825		W5RAB	W5RAB	W5RAB	NW	MAJOR	Fairview	147.075	147.675		WKSU	WKSU	WKSU
NE	CRAIG	Ketchum	443.875	449.875	88.5	W5RAB	W5RAB	W5RAB	NW	OKLAHOMA	Oklahoma City	442.875	447.875		W5DRO	W5DRO	W5DRO
NE	CRAIG	Vinita	147.165	147.765		N05RA	N5BYS	NORA	NW	TEXAS	Guyton	147.15	147.75	88.5	N5DFQ	KYSC	DBARC
NE	CRAIG	Vinita	147.36	147.96	88.5	N05RA	W5GFI	NORA	NW	TEXAS	Guyton	444.975	449.975	88.5	N5DFQ	KYSC	DBARC
NE	CRAIG	Vinita	443.075	448.075		N05RA	N5BYS		NW	WOODS	Alva	443.45	448.45	103.5	K0G0EV	W5ALZ	GSPARC
NE	CRAIG	Vinita	444.375	449.375	88.5	N05RA	KD5JIM	NORA	NW	WOODS	Alva	444.9	449.9	103.5	W5ALZ	W5ALZ	GSPARC
NE	DELAWARE	Rose	146.985	146.385	110.9	KC5DBH	KC5DBH	KC5DBH	NW	WOODS	Camp Houston	442.05	447.05	131.8	W5HFZ	KESNWW	GBARG
NE	KAY	Blackwell	145.31	144.71		KD5MTT	KJ5LY	OIDAR	NW	WOODWARD	Mooreland	444.275	449.275		K5GUD	K5GUD	K5GUD
NE	KAY	Blackwell	444.95	449.95		KD5MTT	KJ5LY	Oidar	NW	WOODWARD	Mooreland	444.675	449.675	103.5	K5GUD	K5GUD	TSARG
NE	KAY	Ponca City	443.5	448.5	88.5	AF5VB	AF5VB	AF5VB	NW	WOODWARD	Mooreland	444.275	449.275		W5OKT	KCSNID	TSARG
NE	KAY	Ponca City	444.5	449.5	167.9	K5BOX	K5BOX	K5BOX	NW	WOODWARD	Sharon	147.315	147.915	88.5	K5GUD	K5GUD	K5GUD
NE	KAY	Ponca City	444.75	449.75		K5BOX	K5BOX	K5BOX	NW	WOODWARD	Sharon	147.36	147.96	88.5	N5WO	N5WO	WX Watch
NE	KAY	Ponca City	442.675	447.675	88.5	W5BE	W5BE	W5BE	NW	WOODWARD	Woodward	146.25	146.025	103.5	K5GUD	K5GUD	K5GUD
NE	KAY	Ponca City	146.97	146.37		W5HZZ	W5BE	KAY CTY ARC	NW	WOODWARD	Woodward	444.875	449.875	103.5	K5GUD	K5GUD	TSARG
NE	KAY	Ponca City	444.6	449.6	167.9	W5RAB	W5RAB	270 GROUP	NW	WOODWARD	Woodward	442.2	447.2	88.5	N5DFQ	KYSC	DBARC
NE	KAY	Ponca City	145.23	144.63	123	W5B5MRE	W5B5MRE	W5B5MRE	NW	WOODWARD	Woodward	146.73	146.13	203.5	W5GPR	WL7J	GPARC
NE	KAY	Ponca City	53.77	52.77		K5BOX	K5BOX	K5BOX	NW	WOODWARD	Woodward	145.39	144.79	103.5	W5OKT	K5GUD	TSARG
NE	MAYES	Chouteau	145.13	144.53		K5LEE	K5LEE		NW	WOODWARD	Woodward	444.475	449.475		W5SEM	K5GUD	WCEM
NE	MAYES	Pryor	147.06	147.66	88.5	W55MC	W55Y	W55Y	OKC	CANADIAN	Calumet	146.61	146.01		KD5YUL	W5FLT	Wheatstrow ARC
NE	MAYES	Pryor	444.675	449.675	88.5	W55MC	W55Y	W55Y	OKC	CANADIAN	Eleno	444.25	449.25		K5OL	K5OL	ERARC
NE	MUSKOGEE	Fl. Gibson	927.65	902.65		N5QP	N5QP	WASVMS	OKC	CLEVELAND	Lexington	444.55	449.55	192.8	KESZCA	KESZCA	KESZCA
NE	MUSKOGEE	Muskogee	146.745	146.145	88.5	KK5I	K5CM	Muskogee ARC	OKC	CLEVELAND	Newalla	145.15	144.55	114.8	K5UV	K5UV	K5UV
NE	MUSKOGEE	Muskogee	146.85	146.25	88.5	KK5I	K5CM	Muskogee RC	OKC	CLEVELAND	Norman	224.44	222.84		K9KK	K9KK	K9KK
NE	MUSKOGEE	Muskogee	224.34	222.74	88.5	N5QP	N5QP	N5QP	OKC	CLEVELAND	Norman	444.35	449.35	141.3	N5KUK	N5KUK	N5KUK
NE	MUSKOGEE	Muskogee	443.575	448.575		N5QP	N5QP	N5QP	OKC	CLEVELAND	Norman	443.825	448.825		N5MS	N5MS	OIARC
NE	MUSKOGEE	Muskogee	443.1	448.1	88.5	W5IAS	N5QP	N5QP/TARC	OKC	CLEVELAND	Norman	147.06	147.66	141.3	W5NOR	N5UWY	SCARS
NE	NOBLE	Perry	146.865	146.265	141.3	KF5RDI	K5NOV	Ham Spotter Group	OKC	CLEVELAND	Norman	443.7	448.7	141.3	W5NOR	N5UWY	SCARS
NE	NOBLE	Perry	442.925	447.925	141.3	KL7MA	KL7MA	NCRG	OKC	CLEVELAND	Norman	146.88	146.28		W5OU	N5MS	OIARC
NE	NOWATA	Nowata	145.37	144.77	88.5	N5VXH	N5VXH	Nowata H.C	OKC	CLEVELAND	Norman	444.75	449.75		W5TC	W5IA	OIARC
NE	OKMULGEE	Hichita	444.6	449.6	88.5	W5IAS	W5GGW	Tulsa ARC	OKC	CLEVELAND	Norman	442.125	447.125	107.2	W5LSKS	W5LSKS	W5LSKS
NE	OKMULGEE	Mounds	147.12	147.72	88.5	KD5DRW	N5DRW	N5DRW	OKC	GRADY	Bridge Creek	444.925	449.925	141.3	K5SB	K5SB	K5SB
NE	OKMULGEE	Mounds	444.85	449.85		W5RAB	W5RAB		OKC	MCCLAIN	Blanchard	442.25	447.25	141.3	K5OL	K5OL	K5OL
NE	OKMULGEE	Mounds	146.775	146.175		W55NJU	W55NJU	775 Group	OKC	OKLAHOMA	Bethany	224.96	223.36	103.5	N5USR	N5USR	N5USR
NE	OKMULGEE	Mounds	444.825	449.825		W5KO	W5KO	W5KO	OKC	OKLAHOMA	Bethany	444.85	447.85	103.5	N5USR	N5USR	N5USR
NE	OKMULGEE	Preston	444.175	449.175	88.5	KD5FMU	KD5FMU		OKC	OKLAHOMA	Bethany	444.05	449.05	192.8	W5SCZN	W5SCZN	Bojive RN
NE	OKMULGEE	Preston	145.33	144.73	88.5	W5KO	W5KO	W5KO	OKC	OKLAHOMA	Choctaw	147.09	147.69	141.3	W5WGT	W5WGT	Choctaw ARC
NE	OKMULGEE	Preston	147.225	147.825	88.5	W55OKM	KD5FMU	OCSA	OKC	OKLAHOMA	Del City	146.7	146.1	103.5	W5DEL	W5OQ	Del City ARC
NE	OSAGE	Pawhuska	147.27	147.87	88.5	N5QZW	W5RAB	270 Group	OKC	OKLAHOMA	Del City	443.3	448.3	162.2	W5DEL	W5OQ	Del City ARC
NE	OSAGE	Pawhuska	444.975	449.975	167.9	W5RAB	W5RAB	W5RAB	OKC	OKLAHOMA	Del City	444	449	151.4	W5MWC	K5SRW	Mid-Del ARC
NE	OSAGE	Pawhuska	444.7	449.7	88.5	W5HZZ	W5BE	KCARC	OKC	OKLAHOMA	Edmond	442.325	447.325		AESGS	AESGS	EARS
NE	OSAGE	Skiatook	444.725	449.725	88.5	W5SLVT	W5BOSM	TRO inc	OKC	OKLAHOMA	Edmond	147.135	147.735	79.7	K5EOK	AESGS	EARS
NE	OTTAWA	Fairland	147.285	147.885	110.9	W0GMM	W0GMM	W0GMM	OKC	OKLAHOMA	Edmond	443.425	448.425	88.5	K5EOK	AESGS	EARS
NE	OTTAWA	Miami	442.65	447.65		KG5FJI	W5FLV	W5FLV	OKC	OKLAHOMA	Edmond	146.79	146.19	100	K5SBH	K5SBH	K5SBH
NE	PAYNE	Stillwater	444.475	449.475	100	AESDN	K5FVL	K5FVL	OKC	OKLAHOMA	Edmond	443.15	448.15	79.7	N5WCL	K5GEP	K5GEP
NE	PAYNE	Stillwater	444.525	449.525	88.5	K5FVL	K5FVL	K5FVL/TARC	OKC	OKLAHOMA	Edmond	146.79	146.19	100	W5RLW	W5RLW	W5RLW
NE	PAYNE	Stillwater	444.875	449.875	103.5	K5FVL	K5FVL	K5FVL	OKC	OKLAHOMA	Edmond	147.18	147.78	203.5	W5A	W5A	W5A
NE	PAYNE	Stillwater	444.9	449.9	141.3	K5FVL	K5FVL	K5FVL	OKC	OKLAHOMA	Edmond	147.03	147.63	167.9	W5SAI	W5DRO	Edmond ARC
NE	PAYNE	Stillwater	145.35	144.75	107.2	K5SRC	KR3LL	SWO ARC	OKC	OKLAHOMA	Newcastle	444.675	449.675	141.3	K5LSB	K5LSB	K5LSB
NE	PAYNE	Stillwater	147.255	147.855	107.2	K5SRC	KR3LL	Stillwater ARC	OKC	OKLAHOMA	Oklahoma City	146.85	146.25	141.3	K5SB	K5SB	K5SB
NE	PAYNE	Stillwater	146.715	146.115		W5YJ	W5RED	OSU ARC	OKC	OKLAHOMA	Oklahoma City	444.575	449.575	141.3	A5SKD	A5SKD	A5SKD
NE	PAYNE	Stillwater	443.875	448.875		W5YJ	W5DCTA	OSU ARC	OKC	OKLAHOMA	Oklahoma City	442.575	447.575	131.8	AD5RM	AD5RM	AD5RM
NE	TULSA	Tulsa	146.94	146.34	88.5	W5SLVT	W5BOSM	TRO inc	OKC	OKLAHOMA	Oklahoma City	443.325	449.325		AESDN	AESDN	AESDN
NE	WASHINGTON	Bartlesville	145.15	144.55	88.5	KB5KZS	KB5KZS	KB5KZS	OKC	OKLAHOMA	Oklahoma City	146.75	146.15	141.3	K5LSB	K5LSB	K5LSB
NE	WASHINGTON	Bartlesville	443.125	448.125	88.5	KB5KZS	KB5KZS	KB5KZS	OKC	OKLAHOMA	Oklahoma City	442.15	447.15	141.3	K5SOB	K5SOB	KOKH FOX
NE	WASHINGTON	Bartlesville	146.655	146.055	88.5	W5NS	KE9XB	BARC	OKC	OKLAHOMA	Oklahoma City	145.37	144.77	141.3	K5SFM	K5SFM	K5SFM
NE	WASHINGTON	Bartlesville	146.76	146.16	88.5	W5NS	KE9XB	BARC	OKC	OKLAHOMA	Oklahoma City	224.4	222.8	141.3	K5SFM	K5SFM	K5SFM
NE	WASHINGTON	Bartlesville	444.775	449.775	88.5	W5NS	KE9XB	BARC	OKC	OKLAHOMA	Oklahoma City	442.775	447.775	141.3	K5SFM	K5SFM	K5SFM
NE	WASHINGTON	Bartlesville	224.26	222.66	88.5	W5RAB	W5RAB	W5RAB	OKC	OKLAHOMA	Oklahoma City	145.25	144.65	141.3	K5SB	K5SB	K5SB
NE	WASHINGTON	Bartlesville	442.1875	447.1875		W5RAB	W5RAB	W5RAB	OKC	OKLAHOMA	Oklahoma City	442.5	447.5	203.5	N5KNU	N5KNU	N5KNU
NE	WASHINGTON	Bartlesville	444.475	449.475		W5RAB	W5RAB	W5RAB	OKC	OKLAHOMA	Oklahoma City	224.3	222.7	123	N5ZW	N5ZW	N5ZW
NE	WASHINGTON	Bartlesville	927.65	902.65		W5RAB	W5RAB	W5RAB	OKC	OKLAHOMA	Oklahoma City	146.82	146.22	151.4	W5MEL	A5SKD	OCAPA
NW	BEAVER	Forgan	147.39	147.99		N5AKN	N5AKN	N5AKN	OKC	OKLAHOMA	Oklahoma City	147.21	147.81	141.3	W5MEL	A5SKD	OCAPA
NW	BECKHAM	Elk City	146.76	146.16	88.5	A5SGW	A5SGW	WCEnt ARC	OKC	OKLAHOMA	Oklahoma City	443.75	449.75	141.3	W5MEL	A5SKD	OCAPA
NW	BECKHAM	Elk City	146.685	146.085		K5ELK	KC9VF	KC9VF	OKC	OKLAHOMA	Oklahoma City	444.3	449.3	141.3	W5MEL	A5SKD	OCAPA
NW	BECKHAM	Elk City	443.025	448.025		K5ELK	KC9VF	KC9VF	OKC	OKLAHOMA	Oklahoma City	442.95	447.95	167.9	W5MWC	W5TAH	Mid-Del ARC
NW	BECKHAM	Elk City	1290	1270		K5ELK	KC9VF	RT.66 ARA	OKC	OKLAHOMA	Oklahoma City	146.67	146.07	151.4	W5PAA	N5PTV	MMACARC
NW	BECKHAM	Elk City	444.525	449.525	88.5	W5BSA	A5SGW	Venture Crew 144	OKC	OKLAHOMA	Oklahoma City	146.85	146.25	141.3	W5PAA	A5EUV	MMACARC
NW	BECKHAM	Mayfield	147.225	147.725	114.8	N0GB	W5LWV	W5LWV	OKC	OKLAHOMA	Oklahoma City	146.925	146.325	151.4	W5PAA	N5PTV	MMACARC
NW	BLAINE	Fay	442.375	447.375	162.2	W5GLD	W5GLD	W5GLD	OKC	OKLAHOMA	Oklahoma City	146.985	146.385	141.3	W5PAA	N5PTV	MMACARC
NW	BLAINE	Watonga	146.745	146.145	88.5	N5WO	N5WO	WX Watch	OKC	OKLAHOMA	Oklahoma City	224.1	222.5	141.3	W5PAA	N5PTV	MMACARC
NW	CUSTER	Arapaho	145.19	144.59	123	KE5RRK	KE5AAJ	Custer City ARC	OKC	OKLAHOMA	Oklahoma City	442.7	447.7	141.3	W5PAA	N5PTV	MMACARC
NW	DEWEY	Seiling	444.925	449.925		W5OKT	K5JHG	TSARG	OKC	OKLAHOMA	Oklahoma City	444.1	449.1	141.3	W5PAA	N5PTV	

OKLAHOMA REPEATERS

ORSI District	County	City	Output	Input	CTCSS	Repeater	Trustee	Sponsor
SE	LEFLORE	Poteau	224.88	223.28	88.5	W5ANR	W5ANR	WC5I
SE	MARSHALL	Kingston	443.45	449.45	127.3	N4SME	N4SME	NTXRA
SE	MCCURTAIN	Broken Bow	147.135	147.735	67	KD5ABBR	KB5ABR	McCurtain
SE	MCCURTAIN	Broken Bow	53.03	52.03	100	KD5YQ/R	KD5YQ	McCurtain County
SE	MCINTOSH	Texana	442.675	447.675	151.4	KZ6KAZ	K05KW	AE6F
SE	MCINTOSH	Tiger Mountain	145.31	144.71	151.4	AD5MC	K05KW	McARC
SE	PITTSBURGH	Daisy	145.21	144.61	100	W5CUQ	W5Y	PCARC
SE	PITTSBURGH	Daisy	442.4	447.4	88.5	W5CUQ	W5Y	PCARC/TARC
SE	PITTSBURGH	McAlester	145.37	144.77	71.9	W5CUQ	W5Y	PCARC
SE	PITTSBURGH	McAlester	444.975	449.975	88.5	W5CUQ	W5Y	PCARC/TARC
SE	PITTSBURGH	Tiger Mountain	146.955	146.355	151.4	AD5MC	K05KW	McIntosh CTY A
SE	PONOTOC	Ada	147.285	147.885	114.8	WB5NBA	IJUNKWN	Ada Arc
SE	PONTOTOC	Ada	145.27	144.67	131.8	KE5GLC	KB5UAF	PCARA
SE	PONTOTOC	Ada	147.285	147.885	114.8	WB5NBA	KD5NQA	Asa Arc
SE	PONTOTOC	Ada	443.8	448.8	114.8	WB5NBA	KB5NQA	Ada ARC
SE	POTTAWATOMI	E Shawnee	145.19	144.59	131.8	KG5BGO	KM5CL	SEOKARES
SE	POTTAWATOMI	E Shawnee	145.39	144.79	131.8	W5SXA	W5ARDG	PCARC
SE	POTTAWATOMI	E Shawnee	146.91	146.31	107.2	W6CCR	W6CCR	W6CCR
SE	POTTAWATOMI	E Shawnee	145.29	144.69	141.3	K5DOK	K5DOK	K5DOK
SE	POTTAWATOMI	E Shawnee	146.625	146.025	131.8	KD5WAY	K5DOK	K5DOK
SE	PUSHMATAHA	Antlers	147.24	147.84	88.5	KD5DAR	KD5DAR	KD5DAR
SE	PUSHMATAHA	Antlers	444.2	449.2	88.5	KD5DAR	KD5DAR	KD5DAR
SE	PUSHMATAHA	Antlers	145.49	144.89	114.8	KI5KC	KI5KC	TAAAG
SE	PUSHMATAHA	Antlers	444.925	449.925	114.8	KI5KC	KI5KC	KI5KC
SE	PUSHMATAHA	Clayton	146.73	146.13	114.8	KM5VK	KM5VK	KM5VK
SE	PUSHMATAHA	Nashoba	145.29	144.69	162.2	KM5VK	KM5VK	KM5VK
SE	SEMINOLE	Seminole	147.015	147.615	141.3	WJ5F	WJ5F	WJ5F
SE	SEMINOLE	Seminole	147.195	147.795	107.2	WJ5F	WJ5F	WJ5F
SE	SEMINOLE	Seminole	444.8	449.8	107.2	WJ5F	WJ5F	WJ5F
SE	SEQUOYAH	Liberty	145.11	144.51	114.8	W5JWT	W5JWT	W5JWT et al
SE	SEQUOYAH	Muldrow	444.3	449.3	114.8	W5ANR	K05NE	FSARC
SW	BECKHAM	ELK City	432.15	432.15		KC9VF	KC9VF	KC9VF
SW	CADDO	Alfalfa	145.11	144.51		WD5M	WD5M	WD5M
SW	CADDO	Anadarko	147.27	147.87		WX5LAW	K5WXL	SPARS/LIRA
SW	CADDO	CEMENT	444.4	449.4	141.3	KW5FAA	AE5OU	MMACARC/SWA
SW	CADDO	Cement	444.45	449.45	123	WX5LAW	K5WXL	LIRA
SW	CADDO	Cyril	147.045	147.645	123	KB5LLI	KB5LLI	SWIRA
SW	CADDO	Cyril	147	147.6		KB5LLI	KB5LLI	SWIRA
SW	CADDO	Cyril	442.275	447.275	123	KB5LLI	KB5LLI	SWIRA
SW	CARTER	Ardmore	444.075	449.075		KE5BAL	KE5BAL	KE5BAL
SW	CARTER	Lone Grove	146.79	146.19		W5BLW	KE5BAL	SOARESSS
SW	COMANCHE	Lawton	147.39	147.99	173.8	AB5J	AF5Q	F. Phillips Memorial
SW	COMANCHE	Lawton	145.43	144.83		K5VHF	K5VHF	K5VHF
SW	COMANCHE	Lawton	444.9	449.9	118.8	K5VHF	K5VHF	K5VHF
SW	COMANCHE	Lawton	145.17	144.57		KC5AVY	KC5AVY	KC5AVY
SW	COMANCHE	Lawton	444.7	449.7	141.3	KD5IAE	KD5IAE	SWAN
SW	COMANCHE	Lawton	442.65	447.65		KG5ACV	W5DPH	SW Digital Radi
SW	COMANCHE	Lawton	442.45	447.45	123	N4RDB	N4RDB	http://n4rdb.com/
SW	COMANCHE	Lawton	443.6	448.6	123	N5PLV	N5PLV	N5PLV
SW	COMANCHE	Lawton	444.6	449.6	123	N5PLV	N5PLV	N5PLV
SW	COMANCHE	Lawton	147.36	147.96		W5KS	N5PYD	LFSARC
SW	COMANCHE	Lawton	147.18	147.78		WX5LAW	K5WXL	LIRA
SW	COMANCHE	Lawton	147.33	147.93		WX5LAW	K5WXL	LIRA
SW	COMANCHE	Lawton	442.525	447.525	123	WX5LAW	K5WXL	LIRA
SW	COMANCHE	Medicine Park	224.5	222.9	123	AF5Q	AF5Q	AF5Q
SW	COMANCHE	Medicine Park	442.175	447.175	123	AF5Q	AF5Q	AF5Q
SW	COMANCHE	Medicine Park	444.075	449.075	123	WX5LAW	K5WXL	LIRA
SW	COMMANCHE	Lawton	146.805	146.205		N5PYD	N5PYD	N5PYD
SW	COMMANCHE	Lawton	146.91	146.31	173.8	W5KS	N5PYD	LFSARC
SW	COMMANCHE	Lawton	443.85	448.85		W5KS	N5PYD	LFSARC
SW	CUSTER	Clinton	147.3	147.9	127.3	K5ODN	K5ODN	
SW	GARVIN	Lindsay	444.875	449.875	131.8	N5RAK	N5RAK	KE5KK
SW	GRADY	Blanchard	442.975	447.975		KF5ZLE	W5LHG	W5LHG
SW	GRADY	Blanchard	442	447	141.3	W0DXA	W0DXA	W0DXA
SW	GRADY	Bridge Creek	145.47	144.87	141.3	K5SB	K5SB	K5SB
SW	GRADY	Bridge Creek	224.68	223.08	141.3	K5SB	K5SB	K5SB
SW	GRADY	Chickasha	145.13	144.53		WA0AQO	WA0AQO	CARS
SW	GRADY	Chickasha	145.23	144.63	141.3	W5KS	N5PYD	LFSARC
SW	GRADY	Tuttle	443.9	448.9		K8TOR	K8TOR	K8TOR
SW	GREER	Granite	146.985	146.385	156.7	K5XTL	K5XTL	K5XTL
SW	GREER	Granite	442.075	447.075	141.3	K5XTL	K5XTL	k5XTL
SW	GREER	Granite	146.715	146.115		KB5LLI	KB5LLI	S.W.I.R.A
SW	GREER	Granite	224.92	223.32	151.4	KE5HRS	KE5HRS	
SW	GREER	Granite	444.65	449.65	100	WX5ASA	N5VX	Altus Skywarn Assoc.
SW	GREER	Granite	147.345	147.945		WX5ASA/D	N5VX	Altus Skywarn A
SW	GREER	Granite	442.15	447.15		Wx5ASA/D	N5VX	Altus Skywarn Assoc
SW	JACKSON	Altus	145.39	144.79	141.3	W5KS	N5VX	LFSARC
SW	JACKSON	Altus	147.285	147.885	100	WB5KRH	WB5KRH	SOKRA
SW	JACKSON	Altus	146.79	146.19	100	WX5ASA	KE5BPL	Altus Skywarn A
SW	JACKSON	Altus	442.05	447.05	100	WX5ASA	N5VX	Altus Skywarn
SW	JACKSON	Headrick	146.64	146.04		WD5BBN	WD5BBN	WD5BBN
SW	JACKSON	Headrick	444.1	449.1		WD5BBN	WD5BBN	
SW	JACKSON	Headrick	443.3	448.3	123	WX5LAW	K5WC	LIRA
SW	JEFFERSON	Waurika	145.29	144.69	123	KB5LLI	KB5LLI	LFSARC
SW	KIOWA	Hobart	146.895	146.395	100	KD5WV/L	KD5WV/L	HOBART ARE
SW	LOVE	Marietta	146.835	146.235	131.8	KF5JFZ	N5KEY	LCMMC
SW	MCCLAIN	Newcastle	444.85	449.85	141.3	KW5FAA	K5SB	MMACARC/SWA
SW	MCCLAIN	Newcastle	927.3875	902.3875	123	W5PAA	AE5OU	MMACARC
SW	MURRAY	Ardmore	146.97	146.37	131.8	W5BLW	KE5BAL	SOARESSS
SW	MURRAY	Davis	147.075	147.675		KB5LLI	KB5LLI	SWIRA
SW	MURRAY	Davis	443	448	100	KC5LBP	KC5LBP	KC5LBP
SW	MURRAY	Davis	442.75	447.75		N5MS	N5MS	N5MS
SW	MURRAY	Davis	147.15	147.75	131.8	WG5B	WG5B	WG5B
SW	MURRAY	Elmore City	146.745	146.145	141.3	KB5LLI	KB5LLI	SWIRA

SW	OKLAHOMA	Oklahoma City	927.9125	902.9125	123	W5PAA	N5PTV	MMACARC
SW	STEPHENS	Duncan	147.3	147.9	123	KB5LLI	KB5LLI	SWIRA
SW	STEPHENS	Duncan	146.73	146.13		WD5YF	KA0VAN	CTARC
SW	STEPHENS	Duncan	444.825	449.825	118.8	WD5YF	KD5DL	CTARC
SW	STEPHENS	Marlow	146.955	146.355		K5UM	WB5EQ	Marlow ARC
SW	TILLMAN	Grandfield	147.255	147.855	192.8	KB5LLI	KB5LLI	SWIRA
SW	TILLMAN	Grandfield	442.2	447.2	123	WX5LAW	K5WXL	LIRA
SW	TILLMAN	Grandfield	147.075	147.675	97.4	KD5BAK	KD5BAK	KD5BAK
TUL	CREEK	Depew	444.375	449.375		W5RAB	W5RAB	W5RAB
TUL	CREEK	Mannford	147.045	147.645	88.5	W5IAS	W5GGW	Tulsa ARC
TUL	CREEK	Mannford	442	447	88.5	W5IAS	W5GGW	Tulsa ARC
TUL	CREEK	Mannford	444.45	449.45		W5IAS	W5IAS	Tulsa ARC
TUL	CREEK	Sapulpa	145.43	144.83	88.5	KE5OKT	N5DRW	CCARES
TUL	ROGERS	Claremore	442.075	447.075	88.5	Wx5MC	WB5Y	WB5Y
TUL	ROGERS	Claremore	147.09	147.69	88.5	W5SRC	N5FEE	RCWA
TUL	ROGERS	Keetonville	223.94	222.34		AE5RH	AE5RH	AE5RH
TUL	ROGERS	Keetonville	442.35	447.35		W5RAB	W5RAB	W5RAB
TUL	ROGERS	Keetonville	224.48	222.88	88.5	WD5ETD	WD5ETD	WD5ETD
TUL	ROGERS	Owasso	146.7	146.1	100	K5LAD	K5LAD	K5LAD
TUL	ROGERS	Owasso	444.3	449.3	100	K5LAD	K5LAD	K5LAD
TUL	TULSA	Broken Arrow	146.91	146.31	88.5	W5DRZ	WB5UW	BAARC
TUL	TULSA	Broken Arrow	444	449		W5DRZ	WB5UW	BAARC
TUL	TULSA	Jenks	442.05	447.05	88.5	N0SR	N0SR	N0SR
TUL	TULSA	Tulsa	147	147.6		K5JME	K5ENA	Am Air ARC
TUL	TULSA	Tulsa	442.1625	447.1625		W5GGW	W5GGW	W5IAS Digital
TUL	TULSA	Tulsa	53.15	51.45	88.5	W5IAS	W5GGW	Tulsa ARC
TUL	TULSA	Tulsa	145.11	144.51	88.5	W5IAS	W5GGW	Tulsa ARC
TUL	TULSA	Tulsa	145.17	144.57	88.5	W5IAS	W5GGW	Tulsa ARC
TUL	TULSA	Tulsa	224.38	222.78	88.5	W5IAS	W5GGW	Tulsa ARC
TUL	TULSA	Tulsa	442.475	447.475		W5IAS	W5GGW	W5IAS Digital
TUL	TULSA	Tulsa	443	448		W5IAS	W5GGW	Tulsa ARC
TUL	TULSA	Tulsa	443.75	448.75	88.5	W5IAS	W5GGW	Tulsa ARC
TUL	TULSA	Tulsa	443.85	448.85	88.5	W5IAS	W5GGW	TARC
TUL	TULSA	Tulsa	913.25	434		W5IAS	W5GGW	Tulsa ARC
TUL	TULSA	Tulsa	146.88	146.28	88.5	W5LVT	WB5OSM	TRO inc
TUL	TULSA	Tulsa	444.1	449.1	88.5	W5LVT	WB5OSM	TRO inc
TUL	TULSA	Tulsa	927.7	902.7		W5LVT	WB5OSM	TRO Inc.
TUL	TULSA	Tulsa	147.39	147.99		WB5NJU	WB5NJU	39 Group

As several of us travel to or near to Oklahoma, here is a current set of repeaters, including a SKYWARN list.
<https://oklahomarepeatersociety.org/repeaters>
 By Larry Randall WA5BEN 

A PARK-ING TICKET FROM 1973

After the beginning.

July 1973

THE PARK-ING TICKET

Official publication of the Plano Amateur Radio Klub

VOLUME I - ISSUE II JULY 1973

ANOTHER MEETING COMING UP! WEDNESDAY EVENING - JULY 11 - 7:30 P.M.
COMMUNITY ROOM OF FIRST NATIONAL BANK - PLANO

Don't forget to attend the July meeting of the PARK! We'll hear a review of Field Day with all the totals and some very interesting statistics on who made the most contacts and when; also we'll discuss the formation of ATVI committee, how to raise some shekels, and when the novice classes should get underway.....W5NQQ will bake something for the coffee break and everyone promises the meeting will break up LONG BEFORE 11:15 p.m. See you then!

Food & Fun

How about a family outing around a pool? Chairlady Pat Runkel promises a luau you'll never forget on Wednesday evening, July 25, at the Ridgewood Club and Pool on 15th Street from 6:30 p.m. on.....You can swim, play pool, dance or just ragchew. Each family is to bring chicken prepared the way you want to eat it. (Pat says this is very important - you'll eat the chicken you bring!) One other dish will be assigned to each family to bring and this one will be served potluck so it should be a big dish. Your XYL will get a call about what dish to bring.....You'll need to bring lawn chairs, your own table service (except for glasses, ice and napkins which will be at the club) and whatever you want to drink.....It should be a great evening and Pat is going to create the most gorgeous fruit "wheel barrow" ever concocted just for all of us to feast on!.....Mark this evening on your calendar!....It will be a lulu of a luau!

WANT TO KNOW WHAT OUR TOTAL FIELD DAY SCORE IS? WHAT OPERATOR MADE THE MOST CONTACTS IN ONE HOUR? WHAT OPERATORS MADE THE MOST CONTACTS IN FOUR HOURS? WHAT RIG WAS MOST SUCCESSFUL? WHAT BAND? ...DON'T MISS THE JULY 11 MEETING! W5SETZ HAS ALL THE RESULTS - LOTS OF VERY INTERESTING STATISTICS!.....HE'LL TELL YOU JUST WHERE TO LOOK FOR THE PARK IN THE FIELD DAY STANDINGS!!!! SEE YOU WEDNESDAY!

IT'S ABOUT TIME ---- for a novice class.....Do you, your XYL, family member or friend want to be a ham? The PARK is about ready to begin its first novice class, some time around July 20 if we have enough people. In order to register, call Bill Newland and if he's not home, call the Allens at 423-6398.

We need help. In order to complete our records and affiliate the club with the ARRL, we need to have each member complete the attached questionnaire and return to Bill Newland or W5NQQ at your first convenience. Also attached is a club roster for your shack so you'll know who-s who in the PARK.

15. Jenkins, Ed

16. Johnson, Harry	W5NCR	3902 CLADEBROOK COURT	423-6398
17. Lawrence, Ed	W5NQQ	3120 Rockbrook Drive	" "
18. McCord, Paul	K5JTR	" "	" "
19. Newland, Bill	W5BMC	2228 Grandview	423-6151
20. Niles, Bill	W5FIX	2602 Park Blvd.	424-0210
21. Runkle, Fred	W5FIX	1409 Williamsburg	424-6087
22. Runkle, Pat	W5FIX	RFD - Box 112	423-3194
23. Sand, Ralph	W5EDX	800 Custer Rd., Apt. 133	238-7637
24. Sander, Dick	K5DXV	Richardson 75080	424-4296
25. Sander, Sandra	W5VYY	7322 Crestridge	424-1277
26. Swan, Bill	W5SGZH	No. 2 Westglen Place	424-7748
27. Summers, J.L.	W5NFB	514 Moltey (Grand Prairie)	262-8683
28. Swartzendruber, Bob	Wn9IFW	2701 Meadows Drive	424-6283
29. Thompson, Dave	W5TJO	1517 Janwood	423-3022
30. Tobaben, Gene	W5YCM	407 W. Adams, Washington, Ill.	61571
31. Williamson, Gerald	W5SWD	821 Brentwood Lane	234-2892
		Richardson 75080	424-7883
		2194 Briarcreek Lane	423-3397
		1211 Drexel	262-3435
		746 S.E. 2nd Street, (G.P.)	424-9306
		1408 Armstrong Drive	423-2917
		3333 15th St.	423-4478
		8 Westport Place	" "
		" "	" "
		182 Moonlight Drive	423-3982
		2400 17th St.	" "
		" "	" "
		1400 Sherrye	424-2049
		1710 Mission, Garland	272-6396
		8 Westport Place	423-6768
		511 Lookout Apt. 208	234-2892
		Richardson 75080	727-3474
		Box 366A Allen	423-2376
		3320 Stonecrest Circle	" "

Jim Sanders
John Francis
Dick Weber
De Kelly
1806 Newland
me Kelly 3rd 75069. 542-4457

WBS-EXM - Box 417-Princeton 75077
WBS-KIU

ACT-M - *Richardson 75080*
AM - Associate Member
H - Honorary Member
P - President
V - Vice President
S - Secretary
T - Treasurer

Use this roster for your reference. Add new members when they join.

ACT-M - *Richardson 75080*

NEWS AND VIEWS OF NQes.....I don't want to duplicate anything that is written by another author about Field Day, but we just have to say how terrific it was and what a great job EVERYONE did!.....The location was perfect; the set-up ideal and it was obvious that the PARK does not lack for hard-working hams. Anyone who witnessed Sunday afternoon's "tearing-down" won't forget the sight of dead-tired people pitching in to restore Schell Park to its pre-Field Day condition. Bill Newland, WB5ETZ, did a terrific job of handling the thousand and one things that must be handled to insure a successful Field Day. And Gerald, W5SID, not only furnished alot of big equipment but let us toss his call letters around all weekend.....We had terrific operators, loggers, XYLs, maintenance men and you-name-it!.....I'd say that in Field Days to come, the PARK will be heard from!.....Thanks to K5MWC for the fine minutes taken down last month when the Allens were on vacation. Congratulations to W5JXT, Sandra Sander, on her new call letters! See you all at the meeting.....Carole, 5NQQ

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CHAPTER TWO - MEET YOUR OFFICERS!

If you were to ask any club member just who is the S-PARK PLUG of the PARK, chances are he'll say Bill Newland, WB5ETZ, our Activities Manager. And they are right! He is interested and fascinated in every phase of amateur radio and generates the same interest in every PARK member he talks with.

"I'm a Texan by choice not by chance," he says although he was born in New Mexico and attended Columbia Union College in Maryland. Married to his XYL, Joyce, in January of 1964, they have one son, Billy Ray. Bill owns the New Ideas Advertising and Public Relations agency and has an extensive background of radio, television, and newspaper work. After having held Wn3ROG in 1961 and a Wn5 novice call in the 60es, he became Wn5ETZ in June of '71 and made it a General in May of '73. His signal is FB due to a Collins S-Line, with a 30S-1 Linear, a TH-3 on a 60 foot tower and an Inverted Vee. You can hear him on all bands including a 2 meter mobile rig and a RTTY "clunker" as he calls it. His recent super-activity during Field Day is just one example of the work he does for the PARK and for amateur radio. He spent hours helping Wn9IFW, Lisa Hoover, the niece of W5NQC and R study for a General exam and is anxious to see anyone interested in hamming get a chance at it.....We're happy that WB5ETZ is our S-PARK PLUG!

Tune in next month for the long awaited inside story of Bill Niles, K5NWB! It's worth waiting for!

TWO NEW CHAIRMEN!.....Dave Thompson, W5TIX, has been appointed Contest Chairman to coordinate future contests. PARK members showed so much interest in Field Day and expressed a desire to participate in other contests that a chairman was needed to make things run smoothly. The next contest may be the CD Party in July.....ALSO, Scotty Gammenthaler, K5DKY, is Chairman of a committee to investigate the possibility of a repeater for the Plano Club. Anyone who wants to assist may give Scotty a buzz at 424-1277.

YE OLDE QUESTIONNAIRE

Call _____ Class Lic. _____

Phone # _____

Member of ARRL? _____

operate any of the following:

RTTY _____ Other _____
VHF _____
SSIV _____
Mobile _____

Member of AREC/RACES? _____

Do you have an emergency power generator? _____

Do you have a hand-carried portable rig? _____

Briefly describe your rig and antennae? _____

What bands can you operate? _____

What bands do you operate most? _____

What are your primary interests in ham radio? _____

What projects do you want the PARK to undertake? _____

MISCELLANEOUS COMMENTS OR SUGGESTIONS (Limit complaints to 3 words)

What do you know about Watergate? _____

Do you ever reach a point in the hobby that you don't know what new thing to try? Well, here's a stack of interesting things for a technician level operator to try.

Pick one. YOU can do it!

—KG5WHQ

RADIO QUEST	
TECHNICIAN LEVEL	
☒	Found an Elmer(someone to answer how-to questions)
☒	Listened on a frequency before talking
☒	Used your call sign on your handy talkie(HT)
☒	Spoke to another person on a regular (simplex) frequency)
☒	Spoke on club repeater
☐	Sent an APRS update
☒	Logged in on QRZ.com and created a logbook
☐	Made a contact via satellite/ISS on an HT
☒	Got my grid location
☒	Gave a signal report
☐	Send a CW/Morse code CQ
☒	Attended a ham club meeting
☒	Joined the ARRL
☒	Checked-in on a club info net
☒	Asked a question on a net or a club meeting
☒	Joined breakfast Eyeball QSO on Saturday
☒	Passed a license exam
☒	Signed up for EchoLink
☐	Bought a cheap Chinese radio
☒	Bought an expensive Japanese radio
☐	Built a radio
☒	Built a j-pole/2m antenna
☐	Made a balun
☐	Made an RF choke
☐	Made a go-bag/go-box
☐	Went on a POTA expedition
☒	Asked a new contact what radio/antenna they were using
☒	Was asked what radio/antenna you are using
☒	Served as a net control operator
☐	Join the ARRL

CHECK ALL THAT YOU HAVE COMPLETED. HAVE YOU FULFILLED THIS MONTH'S QUEST?

DO YOU HAVE SUGGESTIONS FOR NEXT MONTH'S RADIOQUEST? LET ME KNOW HOW YOU DID. POST SCREENCAPS ON FACEBOOK FOR BRAGGING RIGHTS!

newslettereditor@sachseradio.org

RADIO QUEST

TECHNICIAN LEVEL

	Found an Elmer(someone to answer how-to questions)
	Listened on a frequency before talking
	Used your call sign on your handy talkie(HT)
	Spoke to another person on a regular (simplex) frequency)
	Spoke on club repeater
	Sent an APRS update
	Logged in on QRZ.com and created a logbook
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	Was asked what radio/antenna you are using
	Served as a net control operator
	Join the ARRL

CHECK ALL THAT YOU HAVE COMPLETED. HAVE YOU FULFILLED THIS MONTH'S QUEST?

DO YOU HAVE SUGGESTIONS FOR NEXT MONTH'S RADIOQUEST? LET ME KNOW HOW YOU DID. POST SCREENCAPS ON FACEBOOK FOR BRAGGING RIGHTS!

newsletter@k5prk.net

RADIO QUEST

GENERAL LEVEL

☐	Tuned up your first HF frequency
☐	Made a DX contact(out of the continental US)
☐	Joined a traffic net
☐	Sent a radiogram
☐	Worked a Field Day contact
☐	Participated in a contest
☐	Used a digital mode
☐	Sent an email over the radio
☐	Connected your radio to the computer/internet
☐	Used a SWR meter
☐	Grounded your station
☐	Grounded your antenna
☐	Applied a lightning arrestor
☐	Drove a ground rod
☐	Computed RF emissions for your station
☐	Ran your station on a battery
☐	Powered your station from a car power supply
☐	Created your first scratch paper log
☐	Installed logging software(such as hamrs/n1mm)
☐	Logged on to LOTW
☐	Used a pi*star
☐	Used a Watt meter
☐	Made a counterpoise
☐	Threw a wire up in a tree for an antenna
☐	Know who Dave Cassler is
☐	Have given a Roger Roger (RR)
☐	Stood on a ladder and wondered "Will it antenna?"
☐	Joined RACES
☐	Listened to a weather net

CHECK ALL THAT YOU HAVE COMPLETED. HAVE YOU FULFILLED THIS MONTH'S QUEST?

DO YOU HAVE SUGGESTIONS FOR NEXT MONTH'S RADIOQUEST? LET ME KNOW HOW YOU DID. POST SCREENCAPS ON FACEBOOK FOR BRAGGING RIGHTS!

newsletter@k5prk.net

RADIO QUEST

GENERAL LEVEL

☒	Tuned up your first HF frequency
☒	Made a DX contact(out of the continental US)
☐	Joined a traffic net
☐	Sent a radiogram
☒	Worked a Field Day contact
☒	Participated in a contest
☒	Used a digital mode
☒	Sent an email over the radio
☒	Connected your radio to the computer/internet
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☒	Know who Dave Cassler is
☒	Have given a Roger Roger (RR)
☒	Stood on a ladder and wondered "Will it antenna?"
☒	Joined RACES
☒	Listened to a weather net

CHECK ALL THAT YOU HAVE COMPLETED. HAVE YOU FULFILLED THIS MONTH'S QUEST?

DO YOU HAVE SUGGESTIONS FOR NEXT MONTH'S RADIOQUEST? LET ME KNOW HOW YOU DID. POST SCREENCAPS ON FACEBOOK FOR BRAGGING RIGHTS!

newslettereditor@sachseradio.org

I DARE YOU!

Take a stab!

I dare you to beat my score. It isn't necessary to hit my score quickly. Just share your score on QRZ or facebook.

We'll enjoy growing along with you.

If my math is right I scored 27 points while I was a general.

The glove is thrown, my radio friends.

YOU can do it!

—KG5WHQ

**Email
your scores to
NEWSLETTER@K5PRK.NET
There will be a prize.**

NOVEMBER

NOVEMBER		
Sunday 26	Monday 27	Tuesday 28
1p Military Veterans D-Star Net @ REF026A 7p DARC (Dallas) Meeting on the Air 7p Intl D-Star Net @ REF001C 8p KSTIT D-Star Net @ REF33B	7p DARC (Dallas) Geek Net 7p GARC (Garland) Club Meeting 7:30p Texas ARES Net @ 3.873 MHz 8:30p MARC Simplex net	7p HAM (Mesquite) InfoNet @ WJ5J (145.310 PL 110.9) 7:30p Ark-La-Tex D-Star Net @ REF048B 8p Texas D-Star Net @ REF004B 8p Lucas Open Net
1p Military Veterans D-Star Net @ REF026A 7p DARC (Dallas) Meeting on the Air 7p Intl D-Star Net @ REF001C 8p KSTIT D-Star Net @ REF33B 9p Collin County ARES @ WD5ERD November Sweepstakes (CW) IPARC Contest, SSB EANET Sprint High Speed Club CW Contest Classic Exchange, Phone	7p K5PRK Board Meeting 7p GARC (Garland) Club Meeting 7:30p Texas ARES Net @ 3.873 MHz 7:30p RWK -- Meeting on the Air @ 147.12, PL110.9 8:30p MARC Simplex net November Sweepstakes (CW) Classic Exchange, Phone KIUSN Slow Speed Test ICWC Medium Speed Test OK1WC Memorial (MWC) ICWC Medium Speed Test RSGB 80m Autumn Series, Data	7p DARC (Dallas) General Meeting 7p HAM (Mesquite) InfoNet @ WJ5J (145.310 PL 110.9) 7:30p Ark-La-Tex D-Star Net @ REF048B 8p Texas D-Star Net @ REF004B 8p Lucas Open Net Classic Exchange, Phone Worldwide Sideband Activity Contest ARS Spartan Sprint ICWC Medium Speed Test
1p Military Veterans D-Star Net @ REF026A 2p Texas RACES Net (HF) @ 7.255MHz 7p Intl D-Star Net @ REF001C 8p KSTIT D-Star Net @ REF33B EME - 50 to 1296 MHz PODXS 070 Club Triple Play Low Band WAE DX Contest, RTTY ARRL EME Contest 10-10 Int. Fall Contest, Digital JIDX Phone Contest SKCC Weekend Sprintathon OK/OM DX Contest, CW	7:30p Texas ARES Net @ 3.873 MHz 8:30p MARC Simplex net PODXS 070 Club Triple Play Low Band CQ-WE Contest KUSN Slow Speed Test 4 States QRP Group Second Sunday Sprint ICWC Medium Speed Test OK1WC Memorial (MWC) ICWC Medium Speed Test	7p HAM (Mesquite) InfoNet @ WJ5J (145.310 PL 110.9) 7:30p Ark-La-Tex D-Star Net @ REF048B 8p Texas D-Star Net @ REF004B 8p Lucas Open Net Worldwide Sideband Activity ICWC Medium Speed Test DARC FT4 Contest
1p Military Veterans D-Star Net @ REF026A 7p DARC(Dallas) Meeting On The Air 7p Intl D-Star Net @ REF001C 8p KSTIT D-Star Net @ REF33B 9p Collin County ARES Training Net @ W5MRC Nov Sweepstakes-SSB AWA Bruce Kelley 1929 QSO Party Ham Spirit Contest All Austrian 160-Meter Contest South American Integration Contest CW FISTS Sunday Sprint Homebrew and Oldtime Equipment Party	7p K5PRK General Meeting 6p VE Testing @ K5PRK 8p American Legion Post 315 Radio Club Net @ W5SRA Nov Sweepstakes-SSB AWA Bruce Kelley 1929 QSO Party Run for the Bacon QRP Contest KUSN Slow Speed Test ICWC Medium Speed Test OK1WC Memorial (MWC) ICWC Medium Speed Test RSGB FT4 Contest	7p HAM (Mesquite) InfoNet @ WJ5J (145.310 PL 110.9) 7:30p Ark-La-Tex D-Star Net @ REF048B 8p Texas D-Star Net @ REF004B 8p Lucas Open Net Worldwide Sideband Activity Contest ICWC Medium Speed Test
1p Military Veterans D-Star Net @ REF026A 2p Texas RACES Net (HF) @ 7.255 MHz 7p Intl D-Star Net @ REF001C 8p KSTIT D-Star Net @ REF33B LZ DX Contest North American SSB Sprint 1p Military Veterans D-Star Net @ REF026A 7p Intl D-Star Net @ REF001C 8p KSTIT D-Star Net @ REF33B CQ Worldwide DX Contest, CW	7p DARC (Dallas) Geek Net 7p GARC (Garland) Club Meeting 7:30p Texas ARES Net @ 3.873 MHz 8:30p MARC Simplex net K1USN Slow Speed Test ICWC Medium Speed Test QCX Challenge OK1WC Memorial (MWC) ICWC Medium Speed Test	7p HAM (Mesquite) InfoNet @ WJ5J (145.310 PL 110.9) 7:30p Ark-La-Tex D-Star Net @ REF048B 8p Texas D-Star Net @ REF004B 8p Lucas Open Net Worldwide Sideband Activity Contest ICWC Medium Speed Test QCX Challenge

NOVEMBER

NOVEMBER			
Wednesday 29	Thursday 30	Friday 31	Saturday 1
6:50p NTx Readiness QST Net @ 7.27750 MHz LSB 8p N5SAC Weekly Info Net @ W5SRA 8p PARK Informal Net @ 147.180+ MHz, (107.2) 8p Simplex Net @ 146.54 MHz	11a GARC (Garland) Crony Lunch @ Judy's Cafe 7p HAM (Mesquite) Monthly Meeting 8p GARC (Garland) InfoNet 8p Denton County ARES Training Net	8:30,9a North Texas Hospital Radio Club weekly check in	12p Garland "Hands-On" Gathering 7p DARC (Dallas) Tech Net 9p Saturday Night D-STAR Net@REF029A November Sweepstakes (CW) YBDXPI FT8 Contest Silent Key Memorial Contest IPARC Contest, CW UK/EI DX Contest, SSB
6:50p NTx Readiness QST Net @ 7.27750 MHz LSB 8p N5SAC Weekly Info Net @ W5SRA 8p PARK Informal Net @ 147.180+ MHz, (107.2) 8p Simplex Net @ 146.54 MHz Classic Exchange, Phone Phone Weekly Test A1Club AWT CWops Test (CWT) Mini-Test 40 VHF-UHF FT8 Activity Contest	11a GARC (Garland) Crony Lunch @ Judy's Cafe 8p GARC (Garland) InfoNet 8p Denton County ARES Training Net Walk for the Bacon QRP CWops Test (CWT) SKCC Sprint Europe	8:30,9a North Texas Hospital Radio Club weekly check in Walk for the Bacon QRP NCCC FT4 Sprint Weekly RTTY Test NCCC Sprint KIUSN Slow Speed Test	9a W5YI VE Test Session @ Wylie 7p DARC (Dallas) Tech Net 9p Saturday Night D-STAR Net@REF029A EME - 50 to 1296 MHz PODXS 070 Club Triple Play Low Band FISTS Saturday Sprint CQ-WE Contest
6:50p NTx Readiness QST Net @ 7.27750 MHz LSB 7p Murphy CERT Net @ W5SRA 8p N5SAC Weekly Info Net @ W5SRA 8p PARK Informal Net @ 147.180+ MHz, (107.2) 8:30p NTx ARES Net 8p Simplex Net @ 146.54 MHz Phone Weekly Test A1Club AWT CWops Test (CWT) VHF-UHF FT8 Activity Contest	11a GARC (Garland) Crony Lunch @ Judy's Cafe 8p GARC (Garland) InfoNet 8p Denton County ARES Training Net CWops Test (CWT)	8:30,9a North Texas Hospital Radio Club weekly check in NCCC FT4 Sprint Weekly RITY Test NCCC FT4 Sprint KIUSN Slow Speed Test	9a W5SRA Laurel VE Test Session 9a GARC (Garland) ECC Open House 9a GARC Swap Shop @ GARC Clubhouse 7p DARC (Dallas) Tech Net 9p Saturday Night D-STAR Net@REF029A Nov Sweepstakes-SSB AWA Bruce Kelley 1929 QSO Party Ham Spirit Contest All Austrian 160-Meter Contest REF 160-Meter Contest South American Integration Contest Feld Hell Sprint
6:50p NTx Readiness QST Net @ 7.27750 MHz LSB 8p N5SAC Weekly Info Net @ W5SRA 8p PARK Informal Net @ 147.180+ MHz, (107.2) 8p Simplex Net @ 146.54 MHz Phone Weekly Test A1Club AWT CWops Test (CWT) Mini-Test 40 VHF-UHF FT8 Activity Contest Mini-Test 80	11a GARC (Garland) Crony Lunch @ Judy's Cafe 8p GARC (Garland) InfoNet 8p Denton County ARES Training Net Walk for the Bacon QRP Contest NAQCC CW Sprint CWops Test (CWT) NTC QSO Party	8:30,9a North Texas Hospital Radio Club weekly check in Walk for the Bacon QRP Contest NCCC FT4 Sprint Weekly RTTY Test NCCC Sprint KIUSN Slow Speed Test	7p DARC (Dallas) Tech Net 9p Saturday Night D-STAR Net@REF029A LZ DX Contest
6:50p NTx Readiness QST Net @ 7.27750 MHz LSB 8p N5SAC Weekly Info Net @ W5SRA 8p PARK Informal Net @ 147.180+ MHz, (107.2) 8p Simplex Net @ 146.54 MHz SKCC Sprint Phone Weekly Test A1Club AWT CWops Test (CWT) Mini-Test 40 Mini-Test 80	12p Fourth Thursday Lunch 11a GARC (Garland) Crony Lunch @ Judy's Cafe 8p GARC (Garland) InfoNet 8p Denton County ARES Training Net CWops Test (CWT) RSGB 80m Autumn Series, CW	8:30,9a North Texas Hospital Radio Club weekly check in NCCC FT4 Sprint Weekly RTTY Test NCCC Sprint KIUSN Slow Speed Test	12p Garland "Hands-On" Gathering 7p DARC (Dallas) Tech Net 9p Saturday Night D-STAR Net@REF029A CQ Worldwide DX Contest, CW

DECEMBER

Sunday 30			Monday 1			Tuesday 2		
1p Military Veterans D-Star Net @ REF026A 7p Intl D-Star Net @ REF001C 8p K5TIT D-Star Net @ REF33B 7p K1USN SST			7p K5PRK Board Meeting @ Jits 7p GARC (Garland) Club Meeting 7:30p Texas ARES Net @ 3.873 MHz 7:30p RWK -- Meeting on the Air @ 147.12, PL 110.9 8:30p MARC (McKinney) Simplex Net @ 146.54			7p DARC (Dallas) General Meeting 7p HAM (Mesquite) InfoNet @ WJ5J (145.310 PL 110.9) 7:30p Ark-La-Tex D-Star Net @ REF048B 8p Texas D-Star Net @ REF004B ARS Spartan Sprint		
1p Military Veterans D-Star Net @ REF026A 7p DARC (Dallas) Meeting on the Air 7p Intl D-Star Net @ REF001C 8p K5TIT D-Star Net @ REF33B 9p Collin County ARES @ WD5ERD 7p K1USN SST ARRL 160m Contest			7:30p Texas ARES Net @ 3.873 MHz 8:30p MARC (McKinney) Simplex Net @ 146.54			7p HAM (Mesquite) InfoNet @ WJ5J (145.310 PL 110.9) 7:30p Ark-La-Tex D-Star Net @ REF048B 8p Texas D-Star Net @ REF004B DARC CW-Training Contest		
1p Military Veterans D-Star Net @ REF026A 2p Texas RACES Net (HF) @ 7.255MHz 7p Intl D-Star Net @ REF001C 8p K5TIT D-Star Net @ REF33B 7p K1USN SST ARRL 10m Contest QRP ARCI Holiday Spirits Sprint			6p VE Testing @ K5PRK 7p K5PRK Christmas Party 7:30p Texas ARES Net @ 3.873 MHz 8p American Legion Post 315 Radio Club Net @ W5SRA 8:30p MARC (McKinney) Simplex Net @ 146.54 4 States QRP Group Second Sunday Sprint			7p HAM (Mesquite) InfoNet @ WJ5J (145.310 PL 110.9) 7:30p Ark-La-Tex D-Star Net @ REF048B 8p Texas D-Star Net @ REF004B		
1p Military Veterans D-Star Net @ REF026A 7p DARC (Dallas) Meeting on the Air 7p Intl D-Star Net @ REF001C 8p K5TIT D-Star Net @ REF33B 9p Collin County ARES @ WD5ERD 7p K1USN SST ARRL Rookie Roundup, CW Run for the Bacon QRP Contest			7p DARC (Dallas) Geek Net @ W5FC 7p GARC (Garland) Club Meeting 7:30p Texas ARES Net @ 3.873 MHz 8:30p MARC (McKinney) Simplex Net @ 146.54			7p HAM (Mesquite) InfoNet @ WJ5J (145.310 PL 110.9) 7:30p Ark-La-Tex D-Star Net @ REF048B 8p Texas D-Star Net @ REF004B		
1p Military Veterans D-Star Net @ REF026A 2p Texas RACES Net (HF) @ 7.255MHz 7p Intl D-Star Net @ REF001C 8p K5TIT D-Star Net @ REF33B 7p K1USN SST RAEM Contest			7:30p Texas ARES Net @ 3.873 MHz 8:30p MARC (McKinney) Simplex Net @ 146.54 YOTA Contest, CW, Ph QCX Challenge			7p HAM (Mesquite) InfoNet @ WJ5J (145.310 PL 110.9) 7:30p Ark-La-Tex D-Star Net @ REF048B 8p Texas D-Star Net @ REF004B QCX Challenge		

DECEMBER

DECEMBER			
Wednesday 3	Thursday 4	Friday 5	Saturday 6
6:50p NTx Readiness QST Net @ 7.27750 MHz LSB 8p N5SAC Weekly Info Net @ W5SRA	11a GARC (Garland) Crony Lunch @ Judy's Cafe 7p HAM (Mesquite) Monthly Meeting 8p GARC (Garland) InfoNet QRP ARCI Top Band Sprint Walk for the Bacon QRP Contest NRAU 10m Activity Contest SKCC Sprint Europe	3p K1USN SST ARRL 160m Contest NCCC FT4 Sprint NCCC Sprint Weekly RTTY Test	12p Garland "Hands-On" Gathering 7p DARC (Dallas) Tech Net 9p Saturday Night D-STAR Net@REF029A ARRL 160m Contest Kalbar Contest, Ph Wake-Up! QRP Sprint PRO CW Contest INORC Contest FT Challenge
6:50p NTx Readiness QST Net @ 7.27750 MHz LSB 8p N5SAC Weekly Info Net @ W5SRA 8:30p NTx ARES Net @ 3860 NAQCC CW Sprint	11a GARC (Garland) Crony Lunch @ Judy's Cafe 8p GARC (Garland) InfoNet	3p K1USN SST NCCC FT4 Sprint Weekly RTTY Test NCCC Sprint	9a W5YI VE Test Session @ Wylie 7p DARC (Dallas) Tech Net 9p Saturday Night D-STAR Net@REF029A ARRL 10m Contest PODXS 070 Club Triple Play Low Band TRC Digi Contest SKCC Weekend Sprintathon ARI 40/80 Contest, CW, Ph, D
6:50p NTx Readiness QST Net @ 7.27750 MHz LSB 7p Murphy CERT Net @W5SRA 8p N5SAC Weekly Info Net @ W5SRA NAQCC CW Sprint	11a GARC (Garland) Crony Lunch @ Judy's Cafe 8p GARC (Garland) InfoNet Walk for the Bacon QRP Contest NTC QSO Party	3p K1USN SST NCCC FT4 Sprint Weekly RTTY Test NCCC Sprint AGB-Party Contest, CW, Ph, D	9a W5SRA Laurel VE Test Session 9a GARC (Garland) ECC Open House 7p DARC (Dallas) Tech Net 9p Saturday Night D-STAR Net@REF029A Feld Hell Sprint, D OK DX RTTY Contest, D RAC Winter Contest, Ph Croatian DX Contest, Ph
6:50p NTx Readiness QST Net @ 7.27750 MHz LSB 8p N5SAC Weekly Info Net @ W5SRA SKCC Sprint	CHRISTMAS DAY 12p Fourth Thursday Ham Lunch 11a GARC (Garland) Crony Lunch @ Judy's Cafe 8p GARC (Garland) InfoNet	3p K1USN SST NCCC FT4 Sprint, D Weekly RTTY Test, D NCCC Sprint DARC Christmas Contest, CW, Ph	7p DARC (Dallas) Tech Net 9p Saturday Night D-STAR Net @REF029A Stew Perry Topband Challenge Original QRP Contest, CW, Ph
6:50p NTx Readiness QST Net @ 7.27750 MHz LSB 8p N5SAC Weekly Info Net @ W5SRA Bogor Old and New Contest	NEW YEARS DAY 11a GARC (Garland) Crony Lunch @ Judy's Cafe 7p HAM (Mesquite) Monthly Meeting 8p GARC (Garland) InfoNet	3p K1USN SST Zombie Shuffle	12p Garland "Hands-On" Gathering 7p DARC (Dallas) Tech Net 9p Saturday Night D-STAR Net@REF029A

***Fourth Thursday Lunch: Cancelled for Thanksgiving
Normally at Poor Richards @ 11:30a***

***Next Meeting:
November 17, 2025***