



President- Keith Mumaw KI5VNL Vice-President- Mike Durbin – K5MJD Secretary-Sarah Richardson– KI5PZF

Treasurer- James Hunt- KI5DQ Trustee- Mark Hetherington – KF5KUW

June '2025 K5FRC Treasury Report

Yes – a gentle reminder, it is past time for membership dues (if not previously done). If not yet done so, please take care of supporting the K5FRC Radio Club.



The membership rates are changing, now is a good time to attend your club meeting and functions.

The K5FRC club is providing an interesting program every meeting. Along with technical Q&A.

The impromptu soldering class held a few months ago, had two people inquire – lets do it again!

One of the many club benefits is HF and VHF radio loans, available for the club members.
For availability, contact one of the club officers.

Currently, the club has a balance of \$3535.88 in its checking account and a balance of \$226.48 in its savings account. Since our last club meeting, the club has had the following deposits and expenditures: \$none checking account. The Savings Account was no change. The club has had 0 expenditure since last month's meeting, the club check purchase is on a technical hold. To be discussed at the club meeting.

Many of the radio clubs are using a automated record keeping database, called: <https://www.hamclubonline.com/>
This modern concept was discussed last month at the club meeting. Will provide an update at the meeting.

73's, James KI5DQ

FUNNIES!!!



THE NEWEST TO GO BOX



K5FRC REPEATERS

145.470 (100Hz tone; -600Khz offset) C4FM or Analog; IRLP 3602; ECHOLINK 143903

Tuesday Night Net 8:00 PM

442.525 (100HZ TONE; +5.0 Mhz offset) C4FM or Analog;

443.750 (100Hz tone; +5.0Mhz offset) C4FM or Analog;

444.775 (100Hz. Tone) +5 MHz Offset

C4FM or Analog FM Emergency RPTR

CROSS B AND IN BONHAM IS ON 445.200

SIMPLEX WITH 100Hz.TONE

FCARC meets every third Saturday at 9:00 AM at the Bois D'Arc Creek Cowboy Church

ZOOM sessions are held every Tuesday at 7:00 PM

CST before the net on the 145.470 Mhz repeater.

Website: www.k5frc.org

Facebook:

www.facebook.com/K5FRC/

Mark, KF5KUW is the administrator.

Website: www.k5frc.org

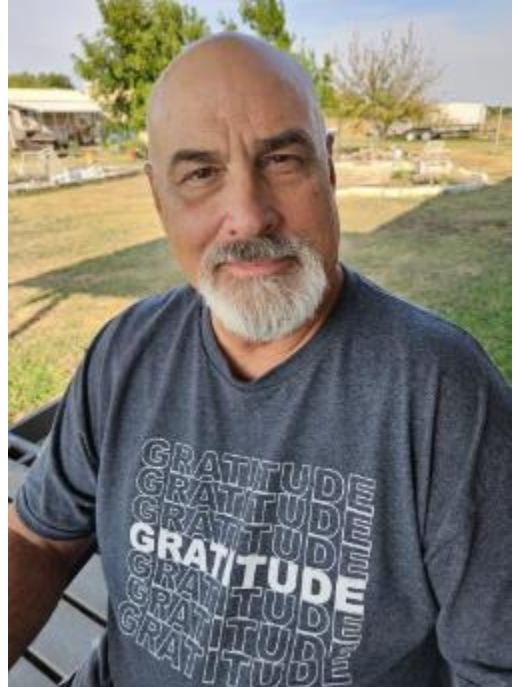
June President's QSO "It's That Thing We Do"

Has anyone ever looked at you and asked, "What's that thing that you do?" In some circles when people reconnect after a lengthy absence, it is a common question during the "catch up" phase of the conversation.

That "thing that we do" is called "Ham Radio" and there truly is much more to it than making contacts. This past weekend and the start of the week showed just that. The club's presence at the Texas Parks and Wildlife event garnered quite a few questions and opportunities to explain Ham Radio. There were a few parents with their children, and we even had a church group show some interest. Members even talked about the periodic need to make weather nets and what those entailed, and less than 24 hours later that became a reality for some of us.

Due to a major magnetic storm, we were unable to make any contacts, but the conversations were great and meaningful, and it was nice to see public interest. It's these types of venues that when pursued on a regular basis, can and will go a long way to promote the club and the joy of Ham Radio.

So next time someone ask, "What's that thing that you do," take time to get them on the air so they can "hear" as well as "see" what we do.



Respectfully,
Keith Mumaw
2025 President - FCARC
73

SARAH RICHARDSON

KI5PZF

SECRETARY

Fannin County Amateur Radio Club

Regular Meeting Minutes

17 May 2025

President Keith Mumaw (KI5VNL) called the meeting to order and opened with prayer. Mike Lindsey led the pledge of Allegiance. Keith thanked all those who came out for the Sam Rayburn House Home School Day, that was rained out.

Vice-President Dr. Mike Durbin (K5MJD) puts it in mind for the elections come December, but not much else to report.

Treasurer James Hunt (KI5DQ) reports checking account balance of \$3,533.80 and savings account balance of \$226.48. A deposit of \$40 in membership and the savings account deposit of \$1 to bring it back to an active status. The bank had the accounts listed as a 'for profit' organization, and it is being corrected, which will require new signatory. Sarah Richardson (KI5PZF) made the motion to accept the Treasurer's report, Ralf Borgardt (KI5LVS) seconded the motion, motion carried.

Secretary Sarah Richardson (KI5PZF) thanked Duncan Berry (KG5NDO), Mark Hetherington (KF5KUW), Mike Lindsey (KD5UNY) for going to the Home School Day at Sam Rayburn House. It is great to see people coming to share radio with the public. Printed copies of the April minutes were available for those who had not read them in the newsletter published on the K5FRC website. Mark Hetherington made the motion to approve the April minutes, Mike Jeter (KG5OGC) seconded the motion, motion carried.

Old Business

New Club Flyer – Ralf Borgardt has completed new flyer about the club, and it is ready to approve. This flyer can be used to promote the club and the advantages of belonging. Dr. Mike Durbin mentioned that it can be added to the homepage of the website. Mark Hetherington made the motion to approve the flyer, Mike Jeter seconded the motion, motion carried.

HamClubOnline setup – James Hunt (KI5DQ) suggests the club do this, Sharon McEachern (KK5SM) asked about the database and redaction of information that club members don't want to regularly share, Sarah doesn't want to due to data breaches including with ARRL, Mike Jeter (KG5OGC) says No. Mark Hetherington asked what is the cost of overhead and maintenance, Fuzzy Vaughan (W5FZY) asked what does this give us that we can't already do?

Equipment inventory and checkout – see our Trustee, Mark Hetherington (KF5KUW)

New Business:

Sign-in sheet – please check that you are a current member of the club for voting matters

Participation in the June 7th Bonham State Park Summer Expo, held from 1000 until 1400. Excellent opportunity to expose the club and do some POTA contacts. Robert Fleckenstein (K5RVF) asked what the target audience we are trying to reach is.

New Club Flyer – possible put flyer in the Leader? Sarah will check with the Leader and the North Texas e-News

Update on club activities – anyone doing educational outreach, Boy Scouts or any other activities under the club name. Currently, the activities are the June 7 Expo at Bonham State Park, and Field Day June 28-29. FD will be held at Bois D'Arc Creek Cowboy Church.

Wireless Cameras at the exterior of the tower buildings – discussion on only exterior or putting one in and one outside for security measures. Bailey tower will need router installed. Mark H has router and laptop to be installed, showing the club to be helpful for the county. Duncan Berry (KG5NDO) made the



motion to install two (2) cameras (1 inside & 1 outside) at the Bailey tower, Rebecca Bruner (KI5IOO) seconded, motion carried.

Marine Mobile Repeater – 4 years ago Dr. Mike built a repeater to be installed for boating access to communications, at the new Bois d’Arc Lake. The repeater would have provided coverage for the boating on Bois d’Arc, Lake Bonham, Coffee Mill, and Crockett. Permission to install the repeater wasn’t granted. With Dr. Mike moving to Lake Fork, he would like to have the repeater to place at his boat dock at Lake Fork, allowing communications. Rebecca Bruner (KI5IOO) moved to return the repeater to Dr. Mike Durbin (K5MJD), Mike Lindsey (KD5UNY) seconded, motion carried.

By-Laws Recap – President Keith Mumaw (KI5VNL) remarks that there was a possible violation of our by-laws in the election of the Trustee. To be eligible to vote, members must be a member in good standing, licensed radio operator, and current in paid dues. The license of Extra allows everyone to use the club call (K5FRC) at events such as Field Day. Keith moved to vote Mark Hetherington (KF5KUW) as Trustee. Vote by show of hands with 18 voting for Mark, 0 nays, with 3 abstaining. Motion carried. Red River Valley ARC is asking us to help with the Tour de Paris Bike Rally. They have helped us with providing communications for Autumn In Bonham Bike Rally. The motion was made to forgo the July 19 meeting and provide support for the Tour de Paris Bike Rally on that date, motion was seconded. Motion carried.

Field Day – June 28 – 29, 2025. Location will be Bois d’Arc Creek Cowboy Church.

Motion was made by Rebecca Bruner (KI5IOO) to adjourn, seconded by Robert Fleckenstein (K5RVF), motion carried.

Fannin County Amateur Radio Club Attendance

KI5VNL	Keith Mumaw
K5MJD	Dr. Mike Durbin
W5FZY	Fuzzy Vaughan
KF5KUW	Mark Hetherington
K5UG	Terry Martin
KD5UNY	Mike Lindsey
KE5GIB	Jody Lindsey
N5OMD	Jim Thomas
KI5WTZ	Ken Troutz
KI5IOO	Rebecca Bruner
KI5ION	David Bruner
KI5LVS	Ralf Borgardt
KF5SOX	Jessie Brown
N5JEP	Leo Salas
KG5OGC	Mike Jeter
KK5SM	Sharon McEachern
K5RVF	Robert Fleckenstein
KG5KKE	Bob Yakel
KI5VFB	DeeDee Yakel
KG5NDO	Duncan Berry
KI5PZF	Sarah Richardson
Guest	Shelly Vega
Guest	Pistol McCain
Guest	Claude Dickens

VICE PRESIDENT REPORT

De K5MJD

Since I have been a bit busy I am crediting this report to the ARRL.

ARRL The National Association for Amateur Radio® has released the logo and theme for this year's [ARRL Field Day](#), June 28 – 29, 2025.

The theme for 2025 Field Day is “Radio Connects” — highlighting the many ways that wireless technology connects people across distances near and far. The event is part picnic, campout, practice for emergencies, informal contest, and most of all, fun! ARRL Field Day is the most popular ham radio activity held annually in the US and Canada. On the fourth weekend in June each year, more than 31,000 hams get together with their radio clubs, schools, or friends to operate from remote locations.

Ham radio provides a connection — both for practical communications and to form relationships with fellow radio amateurs. No matter who you are, or what your background or interests are, if you have an interest in radio and wireless technology, radio connects you with others.

The theme is universal, says ARRL Public Relations and Outreach Manager Sierra Harrop, W5DX. “Local amateur radio clubs bridge generations. Contacts made across town or around the world allow cultural exchange, right over the air. In times of crisis, radio connects those in need with information. The whole point of amateur radio is the connect, both literally and figuratively,” she said. Amateur radio also inspires the next generation of technical leaders by providing a hands-on sandbox where students can gain experience in the fields of science, technology, engineering, and mathematics (STEM).

Make your plans to connect with radio for ARRL Field Day. Use the Field Day site locator to find a site near you. Clubs planning to host a site may list their event information there, as well.

Don't Forget the Swag!

[2025 ARRL Field Day Radio Connects merchandise](#) is available for preorder from the ARRL Store. All the fan-favorite gear is back: tee-shirts (complete with ARRL Sections checklist on the back!), mugs, and pins are available for shipping in late April 2025. *Please note: any orders from the ARRL Store that contain 2025 ARRL Field Day merchandise will be held for shipping until the Field Day items are available in late April.*

For more information about 2025 ARRL Field Day and the “Radio Connects” theme — or to start planning your activation — visit www.arrl.org/field-day.

Photo Gallery



- www.arrl.org Radio Connects is...

TRUSTEES REPORT

Trustee- Mark Hetherington – KF5KUW

Trustee's report June 2025

Paperwork, paperwork, and more paperwork. But the transfer has been completed, and I have begun the process of taking the reins from our Trustee Emeritus, Dr. Mike Durbin. He's a hard act to follow, and I can say unequivocally I will never be able to fill his shoes, but I am honored to try.

North repeater is still having occasional noise issues, but we are stuck waiting on someone who can climb the tower and get this working again, so we won't have the noise when the wind picks up.

All other repeaters are operating normally. Some of you have been hearing stations from other parts of the country, and this is due to the tropospheric ducting that we have been experiencing.

With all our new amateur operators who have joined the club, as well as with us "old timers", should we plan to have a radio check-up workshop this summer? I was wondering if we would like to plan for this during our July meeting, as I will not be present at the June meeting?

As a reminder, be sure that your APRS modem is turned off if you are using your second band for voice communications. If this is left on, there is a good chance that your radio will key up on the second bank, and transmit a digital burst, thinking that the APRS was active. Please familiarize yourself with how to turn your modem on and off, so that you won't be the one causing unintentional interference on our clubs' repeaters.

In closing, now is the time to check all your coax connections at your home QTH. Take a few minutes to double-check that there is no moisture in your coax connections, which is the leading cause of issues with our home radio setups. Please remember to weatherproof your connectors when you are putting these connections back together. Don't forget to double check your ground connections, too.

MEMBER ARTICLES...
NOTE THIS IS MY 6th ARTICLE THIS YEAR
CQ CQ CQ ANYONE ELSE OUT THERE???

EMP?

I was asked to write a short article on how to protect your radios from EMP. First of all a definition of EMP (Electro Magnetic Pulse) is in order.

EMP - A broadband, high-intensity, short-duration burst of electromagnetic energy.

Electro magnetic energy.. RF!!!

Most people think that a nuclear blast would be the worse case EMP and you are probably right, that is going to be almost impossible to protect against (not impossible but tough). There are many sources of EMP other than the one the survivalist worry about. Nuclear EMP article are all over the internet if you are interested simply search for words like TEMPEST AND HEMP.

Lightning, power lines, and even cars/tractors/4 wheelers/lawnmowers have ignition systems that are sources of EMP.

EMP can effect you in many ways. First of all it can be the worse case Nuclear pulse that will simply kill all your radios that are not "Hardened" EMP levels caused by this type of EMP generator will get the best of anything if it is close enough. My feeling is that if it is close enough to kill my radios that I probably wouldn't care..

Now the real worry we all have is from other sources. 1st being of course lightning.

You can protect from static build up, static discharge, and close hits by having a good grounding system. Of course removal of antennas and power connections will also greatly lower the possibility of damage. Let me assure you that this will not 100% protect your equipment. Remember that EMP radiates just like an RF signal (In fact it is an RF signal) and your equipment is still there. Close enough lightning hit and your radio can still be damaged. You can help buy placing your radios in a grounded metal box. Again not 100% protected. BUT much better than the plastic case. The best protection is a good ground on all your equipment. There are many other things you can do like power line filters, faraday shields, and only buying things in metal boxes!! Those nice light weight, plastic, water tight, Walkie Talkies are really hard to protect from EMP.

One of the best EMP generators some of us old timers remember is the spark gap transmitter. Simply generate lightning in our house!! Why didn't this kill all the radios and electronics? Well, Tubes are not susceptible to these levels of EMP. The real answer if you are worried about no comms after and EMP attack is to buy an all tube radio!! FYI some of our military communications equipment still use tubes!!

Now let's talk about other sources mentioned above. I have seen a riding lawn mower take down a very large satellite system due to impulse noise from the ignition system. A spark plug is simply a spark gap transmitter. We now do not allow mowers in the antenna farm. Ever wonder why those antenna farms are all concrete or rock? Now you know..

Try listening to AM radio while riding your lawnmower, running your weed eater, or any other gas engine with out the filters of cars. Why doesn't car ignition bother the radio? The cars of today are



designed with noise limiting wiring and filtered ignition systems. FM radio is not as susceptible to noise and digital is even less susceptible so the need for the filtering we did in the AM days is much less. Try buying a spark plug that doesn't have a resistor built in!! Some of us might remember the days when we had to put ignition filters on our mobiles. This was the main reason the Noise Blanker filter was invented.

Other sources of EMP are DC speed controls, and Light dimmers. DC speed controls like a motor in a golf cart, are actually running on DC pulses!! Sound familiar? PULSES??

AC light dimmers work by pulsing the voltage to the lights from a SCR device which are rapidly switched PULSES..

I see the new Hybrid cars as a challenge to ham radio operators!! Anybody have a Hybrid car yet, and installed an HF radio? I'm waiting for that issue to show up!!.

EMP protection has many levels and definitions. First **GROUND EVERYTHING** and for the ultimate protection make sure your radio is in a metal BOX without and outside connections. (Going to be hard to use that way however!!). Next best thing is, use common sense and use all the available power line filters, coax filters, and grounding methods you can. The next best thing, buy good insurance!!

OH Yeah get a tube radio!!

73's de K5MJD