NEW CODE CAN YOU READ IT?

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K5 Fannin Radio Club

JULY 2026

NEWSLETTER

Why You Should Not "Kerchunk" Repeaters:

Legal Requirements: In the U.S., transmitting without identifying with a call sign violates FCC regulations.

At The Key - FCRC

President - Keith KI5VNL

Vice-President - Jody KE5GIB

Secretary—Sarah KI5PZF

Treasurer—James KI5DQ

Trustee— Mark KF5KUW

VE Testing Coordinator—Mark KF5KUW

Newsletter Editor — Mike K5MJD

Webmaster — Leo N5JEP

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K5FRC REPEATERS

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

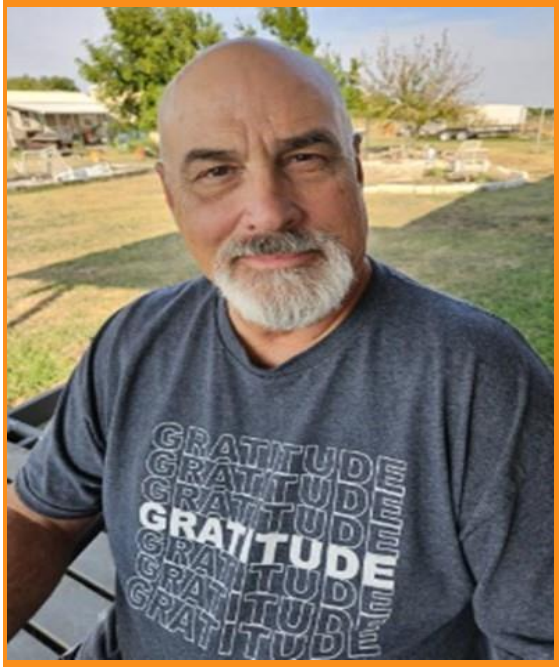
442.525 (100HZ TONE; +5.0 Mhz offset) C4FM or Analog; (LINKED TO 145.47)

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

CROSS BAND IN BONHAM IS ON 445.200 SIMPLEX WITH 100Hz.TONE

Tuesday Night Net 8:00 PM - ZOOM sessions are held every Tuesday at 7:00 PM before the net

K5FRC does not and shall not discriminate on the basis of race, color, religion (creed), gender, gender expression, age, national origin (ancestry), disability, marital status, sexual orientation, or military status, in any of its activities or operations.



JULY 2026 President's QSO

July President's QSO
"Always Adjusting"

I can't believe it's newsletter time again! Where has the summer gone? Everyone knows that Duncan Berry recently stepped down as President due to family issues, and at the last club meeting Jody Lindsey agreed to become the Vice-President for the remainder of the year.

I know it's still early and December is a long way away, but I really do want to encourage each of the members not holding an office to consider a run at President. But as the title of this article states, we still need to adjust and finish the remaining schedule of events. The July 18th meeting as been delayed until the 25th so we can help the Paris club with their bike ride and I would really appreciate all the help that the FCARC can give them. We did the same thing last year and turn was really sad, so I'm hoping this year is better.

We that being said, we still have several events on the calendar to plan for including Heritage Day at the Sam Rayburn homestead, Autum in Bonham and our 2nd Annual Hamfest on November 14th at the Armory. We can still have a successful year and move the club forward but it will take everyone's help.

Please give Jody your full support as she fills the role of VP and it is my understanding that she is working on plans for a POTA at Coffee Mill Lake sometime soon. Until then, stay safe, stay cool and have talking on the radio.

Keith
President - FCARC
73

VICE PRESIDENT REPORT

Jo Lynn (Jody) Lindsey

KE5GIB



I will do my best to hold the place of vice president. First I want to talk about The Summer Field Day that we had at the Bois D' Arc Cowboy Church. This is the first time that I have been at the field day to be able to make contacts. It was a real blast and I want to thank Sharon McEachern for instructing me on making the contacts. I was able to make seventeen contacts that day.

I will help the president to continue to get more people in the club and to continue to assist the club to be more active with the public. That is all for now , hope to see you all at the next meeting and at the next zoom meeting.

73,

Jo Lynn (Jody) Lindsey

KE5GIB

SARAH RICHARDSON
SECRETARY REPORT



Fannin County Amateur Radio Club
Minutes - Regular Meeting
20 June 2026
Bois D'Arc Creek Cowboy Church

VP-Keith Mumaw called the meeting to order, Dr. Mike Durbin led the pledge, then Keith led the invocation.
Secretary Sarah Richardson asked if there were any corrections for the minutes of the May meeting as published in the newsletter. No corrections were needed, Mark Hetherington moved to accept the minutes as published, Keith Mumaw seconded, motion carried.
Treasurer James Hunt gave the current balance $6,338.11 in checking, $228.71 for Savings and no expenses currently. Paul Ivey made the motion to accept Treasurer's report, Mike Durbin seconded, motion carried.
Vice President Keith Mumaw reports we have a lot of work to do to grow the club. Update on First Alert program in Old Business shortly.
President Duncan Berry has resigned due to personal reasons. Keith can take the President position, and we can elect a VP.
Trustee Mark Hetherington has been in conversation with Rayburn Electric regarding the tower is number 5 for the new tower, There are two going on in July. There isn't a concrete pad or building yet at the new site, and the company and county has to have a building to house the equipment. Leo mentioned that Lamar Co funded new towers through Office of Emergency Management (OEM). Sharon McEachern asked Judge Newt Cunningham about equipment move, and he offered that the communications equipment at the Sheriff office and Troy Hudson, Emergency Mgm Coordinator is in charge of that. Coordination required for this move.
Old Business
First Alert Program: Keith reports that the First Alert Program (getting radio and operators in the Fire Departments of the County) needs to be on the backburner while the equipment is assessed.
Field Day: Who's going to be there? Who is going to spend the night? Ralf Borgardt will bring the white trailer at 1000, Dr. Mike Durbin will bring the blue, James Hunt will bring his go-kit and set-up. Food will be a pot-luck. Overnight operators will be Dr. Mike, James, and Sarah. Sabine Valley ARC Don Kas invited us to listen, they will be set up at the Audie Murphy Museum with 5 stations, 4 radios, also will work FT8.
Antenna for North Tower: James Hunt presented options for the antenna. Mike Jeter made a motion to buy DB224e from lowest vendor, Leo Salas seconded, motion carried. When time comes for the Bailey tower, additional coax will be needed to get the antenna to a higher spot on the tower. James will price coax.
Equipment: The equipment the club has needs to be used. Discussion ensued, Terry Martin suggested selling it to raise funds for such as the tower needs, or other endeavors.
Officer position: Keith Mumaw will step up into the President position for the remainder of the year. Jody Lindsey accepted nomination to serve as Vice President for the remainder of the year. Sarah Richardson made a motion to accept this slate, Newt Cunningham seconded, motion carried. Jody did remind the club that she will be soliciting names for the 2027 slate of officers.
Autumn-In-Bonham (AIB): The number of rest stops currently sits at 13, as they are finalized, please sign up for where you can be. Honey Grove will be hosting Davy Crockett Day and this is an excellent time to operate both trailers and showcase the club.
Tour de Paris: July 18 - the day of our regular club meeting. Last year we voted to cancel our meeting to assist with this event and few did. Paul Ivy made the motion to move the club meeting to the 25 July date so we are free the 18 July to assist, Mike Durbin seconded the motion, motion carried. TdP has a lot of rest stops that will be manned all day, SAG wagons roaming, and has an 0800 start at the Civic Center in Paris.

Adjourn: Paul Ivy moved to adjourn the meeting, Terry Martin seconded, motion carried.

SPECIAL COMMENT: Field Day 2026
WHAT a lot of fun that was! We missed seeing some familiar faces, and that makes me sad. But we had a guest do a contact under K5FRC with the Get On The Air specialist Elmer Sharon McEachern. We had 20 people sign the Attendance book, half of them non-ham folks! We had 220 contacts (I think!) and have to admit K5UG Terry Miller's "Kilo 5 Friendly Radio Club" was a hit! Lots of big things going on between now and Winter Field Day, so come on and have fun with us. 73 and see ya later!
Sarah Richardson
KI5PZF

TRUSTEES REPORT



JULY 2026 Trustee Report

All repeaters are operational, with the 145.470 MHz repeater still experiencing noise. We still have our fingers crossed that our tower climber will be able to resolve this noise issue soon.

We did have an issue at the north tower, in that the A/C unit that controls the temperature within the tower building had failed. Thanks to Mike (K5MJD) and Jim (N5OMD) for replacing this defective unit with a new A/C, and bringing the inside temperature back down to a safe level.

Our weather has finally turned hot; what I would describe as typically hot for July weather… But we have had higher than normal amounts of rain, which actually has our yards and pastures very green, instead of brown and dormant. Don't forget you can check on the weather at our repeater sites on our club's website, https://k5frc.org/. Just look for the Weather / APRS section to see what are the current conditions at that site.

Field Day was a success, as far as those who chose to participate was concerned. This year's turnout was the lowest I can recall since I have been in the club, and that being 15 years. Our potluck dinner was very delicious, although I have to admit I definitely overbought on the vegetable platter… The pulled pork, the ham, the vegetables, the pies… Yum!

So how did we do with our contacts, and who won the dual band radio that Mike (K5MJD) put up as the prize for the most contacts?

K5FRC's Contest Summary Report for ARRL-FD
Created by N3FJP's ARRL Field Day Contest Log

Total Contacts = 220
Total Contacts by Operator:

Operator	Total	%
KF5KUW	42	19
N5JEP	41	19
KK5SM	34	15
K5MJD	26	12
KI5DQ	22	10
KI5PZF	18	8
KE5GIB	17	8
K5UG	16	7
KD5UNY	3	1
(Cate – guest)	1	0

(After filing our contest log with ARRL, the results indicated a score of 895, with the added multipliers…)

This ended up being a very close finish, with the winning score only 1 contact more than the runner up.

We really needed an award for the person who demonstrated their amateur radio knowledge, willingness to help others, and their ability to make it fun for everyone there. This award should go to Sharon (KK5SM), who tirelessly demonstrated goodwill and enthusiasm throughout the time she was there at Field Day. And she also sat down with one of our visitors, a young lady named Cate (who normally resides in Stephenville, TX), who was an intern doing her summer work at the Sam Rayburn Museum in Bonham. Sharon explained what our club was all about, sharing with her what Field Day was all about, and in the end, letting Cate try to make a contact. And when Cate did make a contact, her face lit up in a huge smile, and she was so excited and thrilled to have had the opportunity to get on the air.

This is what Field Day is all about – HAVING FUN and sharing with others what is amateur radio all about…

July ‘2026 K5FRC Treasury Report



One of the “perks” within the K5FRC club is when a newly licensed amateur radio operator receives a FREE club membership of the remaining year passing the first radio test.

One of many of the K5FRC club member benefits is the availability on loaned radio equipment. We have HF transceivers, VHF radios, power supplies, CW Keyers for member use. Also have some coax. Please contact a club officer on availability.

The City of Bonham has provided use of the Pavilion at the armory, rent free – Thank You!
Although they did require a Security Cleaning Deposit of $600, a check was mailed 10September 2025. Now a deposit for our upcoming event.

Currently, the club has a balance of $6338.11 in its checking account and a balance of $228.71 in its savings account. Since our last club meeting, the club has had no deposits or expenses noted.

Did you know that the K5FRC amateur radio club is affiliated with the ARRL?
This is right!

With our affiliation, the K5FRC Club can receive $20 for each NEW membership and $5 for each RENEWAL submitted to ARRL Head-quarters.

I can assist you with this process.
The '2025 form is attached.

Sidebar – will have specialty antenna updates PP presentation during the meeting.

73’s,
James
K5FRC Treasurer
KI5DQ



MEMBERS INPUT

IT IS THAT TIME AGAIN



MEMBER INPUT ARTICLES

I KNOW HAVE PUBLISHED THIS BEFORE BUT HAVE HAD A FEW FOLKS WONDER ABOUT WHERE THEIR NOISE IS COMING FROM…

"RUSTY BOLT EFFECT"

by:
Mike Durbin K5MJD
Technical Specialist ARRL
North Texas Section

Ever had a case of interference that seems to come and go? Sometimes it seems weather related, sometimes wind, and sometimes it doesn't make any sense at all? Well look into what is called the "RUSTY BOLT EFFECT". Most of us have towers, antennas, fences, TV antennas, gutters, or anything else made of metal that has been around awhile. Since Mother Nature likes to change things with time, (RUST) she has developed a method of manufacturing diodes that could compete with commercial manufactures. Diodes are very efficient generators of signals and produce non-linear current flow which is rich in harmonics and spurious signals. This type of rectification may contribute to mixing of ham radio signals, commercial signals, and just plain noise, can mix together and form signals that we call Intermodulation distortion. The most annoying type of signals form as a result of signals not usually related to amateur radio transmissions. These signals are usually from things like commercial AM transmitters, digital paging systems, digital transmitters (becoming wide spread), and other signals sources in close proximity to towers, power lines, or metal buildings.
In general any conducting surface (plumbing, electrical, fences, towers, guy lines, multiple piece antennas, or any place where two metals meet, can cause a rectifying joint and produce a natural signal/noise generator. Don't forget items that have diodes in them by design, when looking for an interference source. How about things like, rotators, controllers, power supplies, alarm systems, etc. (You do have things like these around don't you?)

WHAT TO LOOK FOR!!

Guy Wires that help keep us safe can cause a problem. The connections on the tower of guy line cables are usually of two different types of metals and are a perfect source for one of natures diodes. Guy lines are usually broken up by insulators which help reduce the effect of resonant lengths which reduce harmonics and signal radiation. The insulators can however break and form connections which then becomes a diode. The connections to the tower legs are usually just wrapped around the leg and not bounded, what a great diode this makes. The worse scenario for this type of problem is a continuos guys lines with no grounds on the ends, or bounding to the tower. Where is the ground on your guy lines?

Towers that hold our antennas (this also goes for jointed masts) usually have joints in them where legs are bolted together. The best installation probably has bolts that are different metal then the tower itself making a natural diode after nature has had time do some work. The best supports have a bonded straps over joints to help reduce this effect.

Antennas usually are made of multiple pieces of metal and joints of telescoping metals. Well what do you know, a tunable diode noise source. Most antenna manufacturers will include a conducting grease to help eliminate the effects of corrosion. The joints of commercial antennas are usually moisture proof to help reduce this effect even more. Now you know what that funny grease that came with antenna is for.

Stranded wire we call copperweld, is used in some antennas construction, and by some for ground connections, is a good source for natural diodes as the aging effects go to work. The copper around steel used in most of these types of wires tend to corrode with time. (Look at your copper wire is it green?) The steels rusts and the copper turns to copper oxide. The first commercial diodes were made from copper oxide! Now you know why solid conductor wire is used for grounding in most properly installed antenna systems. Another good example is your telephone ground. I would bet that your telephone entrance box on the side of your house has a solid conductor grounding wire.

Metal roofing, Gutters, Duct work, Metal window frames are good sources for diodes. (metal barns/storage sheds anyone?) The metal used in manufacturing of these devices are usually just laid over each other and can form great diodes. The screws used to assemble these types of structures are also generally of different metal than the metal they are holding. The same goes for those very attractive and functional gutters we all have around our house. Your gutters aren't, say 40 meters long are they?

Elevator Shafts are great vertical antennas of various lengths, usually about the proper length for receiving broadcast radio stations. Do you have a repeater system mounted on top of natural antenna source? The joints in the lengths of these vertical beams are bimetallic!

This could go on forever but here are a few other things you might not think of; Metal pipes touching each other, pipe joints, power line guys, loose hardware on power poles, metal fences, wire fences, and yes even bed springs.

73's de K5MJD

fCARC 2026 Calendar of Events

July

18 Tour de Paris - helping fellow club RRARC with comms
25 Regular Club Meeting

August

15 Regular Club Meeting

September

19 Regular Club Meeting
26? Sam Rayburn House Farm Heritage day
26? Davy Crockett Day at Honey Grove
** How cool would it be to have a trailer at each event so that even if the bands didn't cooperate we can still demonstrate radio?

October

3 Autumn In Bonham Bike Rally
17 Regular Club Meeting ** typically "Go-Box" focus and the Scouts JOTA is at this time

November

14 HAMfest at Civic Center/Armory
21 Regular Club Meeting/Spirit Of Giving is this day for 2026

December

19 Regular Club Meeting/Christmas Party/Officer Elections

ARRL
The National Association for Amateur Radio®

Club Commission Reconciliation Form

For use by ARRL Affiliated Clubs

Complete this form and attach all membership applications with full payment.
ARRL pays commission directly to the club.

Club Name _____ Date _____

Contact Name _____ Call Sign _____

Mailing Address _____

City _____ State _____ ZIP _____

Daytime Telephone _____ E-mail _____

ARRL Affiliated Clubs can receive $20 for each **NEW** membership and $5 for each **RENEWAL** submitted to ARRL Headquarters. Applies to Standard Membership only. A NEW MEMBER is defined as any individual who has never been a member of ARRL or any individual who has not held membership for two or more years prior to the application submission. A RENEWING MEMBER can renew at any time, even before their current membership term expires (up to 3 years pre-paid). Memberships may not be combined with and are not eligible for any other individual promotion or special offer.

STANDARD MEMBERSHIP

Other membership types (family, student, blind) are not eligible for commission.

New #_____ x $20 = $ _____

Renewal #_____ x $5 = $ _____

Total Commission = $ _____

Please Make Club Commission Payment Via:

Direct Deposit to Account:

☐ Checking ☐ Savings

Bank: _____

Acct #: _____

Routing #: _____

Check to be Mailed to:

_____

Address: _____

_____

Authorizing Signature for Direct Deposit: _____

ARRL ONLY: Confirmed By _____ Date _____

Toll Free (US) 1-888-277-5289 or 860-594-0200 • ARRL, 225 Main St., Newington, CT 06111-1400
membership@arrl.org • www.arrl.org/join

form rev. 1/25