



Sarah Hedberg KEØYXG
ARRL Foundation Scholarship Award Recipient

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CLUB MEETING INFORMATION

First Thursday of the
Month

Next Meeting: 05 Sept
2024

Time: 7:00 p.m.

Location: *Pilgrim
Community Church*

500 Arch St,
Leavenworth, KS
66048

Club Breakfast Meeting

Every Thursday

Time 7:30 a.m.

Location: *Depot
Restaurant*

781 Shawnee St.
Leavenworth, KS
66048

Third Thursday of the
Month is our
Build/Learn Session

Time: 6 or 7 PM Check
the club calendar
Location: Pilgrim
Community Church

From the President's Desk

I know several of our club members participated in the Kansas QSO Party this year, unfortunately I was not one of them. I hope to hear of their experiences at our upcoming club meeting on September 5th. I attended the Joplin Hamfest that weekend. Gary, Martha and I shared a couple of tables at the event and made several people happy with their purchases from us. And I scored two winning tickets for prizes that were given away. I will be sharing those prizes with some lucky members, at our club Christmas Party. Speaking of which, our Christmas Party will be held on Friday evening December 6th, be sure that is on your calendar, you don't want to miss it!

Club activities coming up in September in addition to our regular club gatherings will be:

- Winlink II field operation test on September 7th
- Fred Harvey House Museum on the Air special event on September 14th
- Twin Oaks Car Show on September 26th

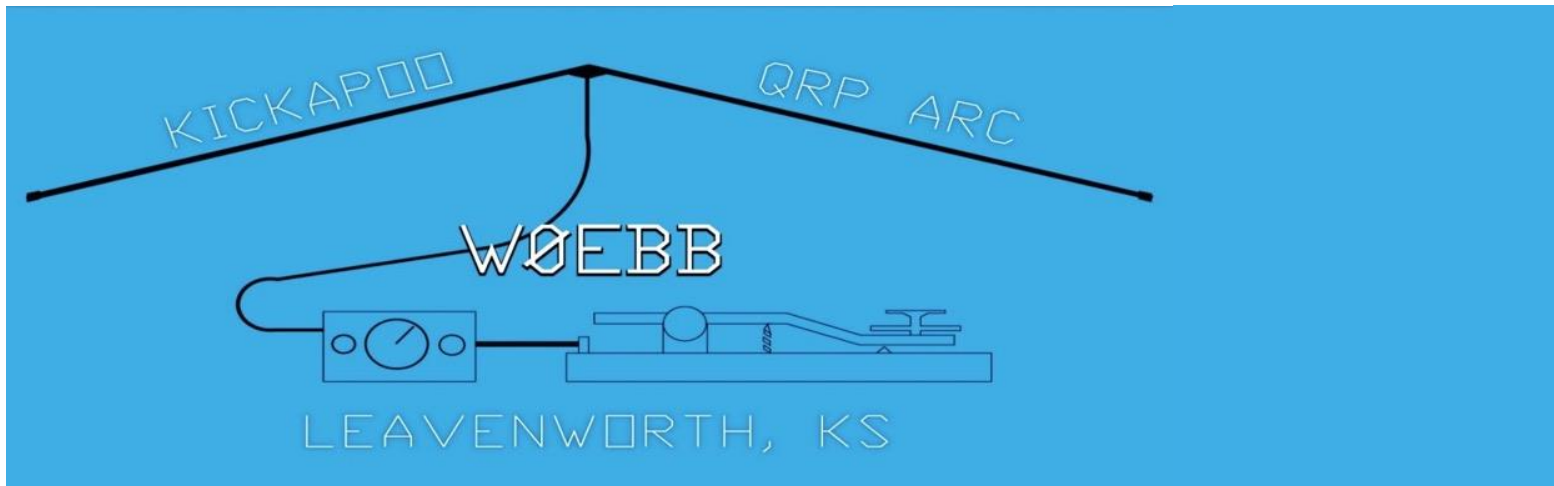
Be sure to monitor our PKARC.org website regularly for details on each of these events and information concerning club meetings along with possible additional functions.

I want to give a big thank you to Brian NBØR for his work as our regular Sunday evening ARES NCS and Newsletter publisher. Brian has asked for some of his time back, due to other commitments. This is part of the reason I have asked for members interested in serving as a Net Control Operator. We need an extra board (my railroad lingo) to allow our regular NCO's to have life flexibility. I have heard from several members that are interested in being Net Control Operators, I hope to hear from more. This is a great opportunity to gain experience and confidence interacting with some of your friendly club members.

We are just over a month away from our OCT 5th SET exercise. This year will be a fun, relaxed learning and demonstration event. Please let Rick NJØP know you are available to participate. I know Rick and the planning committee will be sharing details of position openings and responsibilities.

It is also time to start thinking about nominations for PKARC Ham of the Year and candidates for club officers.

73 Steve, WØSER



From the Kickapoo QRP ARC operating desk

This month found us traveling to the great state of Alabama to attend the Huntsville hamfest held at the Von Braun Convention Center. This is a great two day hamfest with most of the major ham radio dealers attending, along with a huge number of swap tables and other dealers selling accessory items.

We stayed at our favorite place again which is in Monte Sano State Park and mountain in one of the old cabins built by the CCC. This year we ended up staying in cabin 1 instead of cabin 10. They have been updating the cabins and installing all new appliances, electrical and lighting. Cabin 10 was being remodeled at this time so they moved us to cabin 1, which ended up being the first cabin we were ever introduced to 10 years ago on our first visit to this hamfest.

Since Monte Sano Mountain is considered a SOTA summit, we activated it from the cool area inside the cabin instead of out in the screened in porch area where the temperatures were in the 90's. We had several other hams stop by and activate the summit so in total we had six hams activate this summit using our 20/40 trap dipole antenna. One ham had just received his new Elecraft KH1 portable QRP CW transceiver and his first contact was on 20 meters to Spain. I think he was impressed with what he could do with a small handheld HF radio putting out five watts.

On Saturday evening we hosted a number of hams at the cabin that were all SOTA operators. We have been doing this now every year for the last five or six years. It's always fun and interesting to sit around and talk ham radio and operate while relaxing and having a good time.

The hamfest was really crowded on Saturday. This was not surprising as this is about the third largest hamfest in the USA. We wandered around and shopped for some small items we needed, while running into friends we knew from around the country. Unfortunately we did not win any of the door prizes but that's just the way it goes. Sunday the crowd was much smaller, but still had a good showing by the time the main prize was drawn.

I picked up a number of kits to use in one of our next build sessions. I found an EFHW antenna kit that is well designed and capable of operating on most all of the HF bands without a tuner if the wire has been cut to the right length. This antenna will handle about 100 watts in SSB mode and 50 watts in CW and digital modes. There will be more on that topic later.

Our next adventure out was to the Joplin Hamfest. At this hamfest Steve -W0SER and I had swap tables to unload some of our surplus ham radio gear. Overall we did pretty well so that gave us some money to reinvest in our next ham radio item.

Don't forget about our weekly breakfast gatherings on Thursday mornings at 7:30. We have been having a good number of people showing up so come out and join us.

Gary Auchard – W0MNA

What is QRP operation?

What ham radio operators say: "If you want to talk to someone, use a big high-powered radio. If you want to talk to everyone, use a small low-powered one." This saying refers to the use of QRP, or low-power, operation. Ham radio QRP involves the use of radios with typically a maximum output power of five watts or less, which often are kit buildable.

Despite the lower power output, QRP radios can communicate over long distances, thanks to their simple yet efficient design, utilizing weak signal modes like CW, FT8 JS8Call and others. This makes QRP operation an attractive low budget, very portable option for amateur radio operators who enjoy the challenge of communicating with low-power radios



Pilot Knob Amateur Radio Club

Meeting Minutes

August 15th, 2024



PKARC Officers

President:

Steve WØSER

Vice President:

Keith KFØKBC

Secretary:

Roxann KZØIMO

Treasurer:

Martha WØERI

PKARC is a 501c(3)
non-profit club

Your generous donations
enable scientific,
technology, and
educational programs for
the club.

Call to Order

The meeting of the PKARC was held on August 15th, at Pilgrim Community Church. It began at 7:00 pm and was presided over by President Steve Rice (WØSER), VP Keith (KFØKBC), Treasurer Martha (WØERI) and Roxann (KZØIMO) secretary.

Roll Call

Members in attendance included: Gary (WØMNA), Martha (WØERI), Randy (KØAWW), Scott (K2SCT), Sarah (KEØYXG) Emily (KFØGNS), Pete (NØCS), Roxann (KZØIMO), Jeff (KØARW), John (KFØLNZ), Ron (NØCALL), Loren M (KBØYME), Don (KFØMZG), Max (KØMDP), Dick (KØDJR), Steve (WØSER), Guy (KFØKOS), Thadd (KFØPXE), Loren K (KFØQAL), Sean (KFØQQF) and Rob (KØ9OHX).

The meeting opened with Introductions of those present. Jeff L made a motion to approve the July minutes. Thadd seconded. No discussion. Motion carried.

Martha gave a treasures report.

The Floor was given to Gary. He presented a video by Peter Wates (G3ØJV) regarding getting the most out of your Receiver. It highlighted matching your signal strength with the different RF frequencies. The HamRadioStore.uk was briefly discussed.

Steve then gave a special announcement. Our very own Sarah Hedberg received the ARRL Foundations Scholarship Award. She and the other award winners will be featured in the September issue of the QST magazine. Sarah plans to attend the University of Illinois where she plans to major in Chemical Engineering. Congratulations Sarah!!

The next topic of discussion was the upcoming Winlink training session which will take place at the next club build night August 22nd. We will be helping you set up Winlink and give some demonstrations as well on how to send packet Winlink messages which will be a feature of our October 5th SET.

Some upcoming reminders were given, first the Joplin HamFest August 23 &24, then the Kansas QSO Party on the 24 &25th.

Adjournment

Guy made a motion to close the meeting. Thadd seconded. No Discussion. All were in favor.

The meeting adjourned at 8:27 pm.

Respectfully Submitted by, Roxann Kosmicki, KZØIMO

Importance of SET

We hope you will contact Rick – NJØP and participate in this event. Amateur Radio has many privileges, the key advantage being the amazing amount of the spectrum we enjoy. There is a lot of pressure on the government to continuing selling spectrum to the highest bidder. We maintain our privileges because we are first and foremost a valuable service to the public, especially in times of emergency. (See the very first paragraph in Part 97, FCC Rules). What we do for SET is how we afford the spectrum we use. See you on October 5th.

Execution. Here's the planned schedule for Saturday, Oct 5th:

0630 ARES Call-Out Preparatory Notification. Check-in net starts.

0700 ARES Activation. Net changes to information net.

0730 Incident Command Post established in Easton

0800 Incident Briefing at Incident Command Post in Easton

0840 Field elements deploy

0900 Communication relays established. Observations begin.

1100 Field portion complete. Communication relay recovery begins.

1130 Hot Wash at Easton Incident Command Post

1200 ENDEX



Submitted by Rick Reichert, NJØP

The **prairie fire** scenario for our SET is the third most likely perilous event for Leavenworth County behind severe weather events: Tornado and Flood.

Background. On previous exercises, we ran into communications issues when operating at or beyond adequate repeater coverage, especially in the rural areas close to the western Leavenworth County border. From our last SET after action reports, we, as communicators, need to be able to quickly and effectively create a communication footprint in austere areas and connect that area to Leavenworth-based facilities (Hospital, EOC, Dispatch, etc.)

Vision. We should not only be able to “fill the gap” with traditional legacy capabilities, but also be able to “push the envelope” of capabilities that are certainly within our grasp. Legacy capabilities are VHF/UHF FM voice and Packet Radio. Advanced capabilities are telephone, video teleconferencing, remotely-controlled cameras, weather data collection, real-time position reporting, Winlink traffic handling to the gateway, and large file data transfer for pictures, forms, telemetry readings, etc.

2024 Simulated Emergency Test

We're less than a month away!

We maintain our privileges because we are first and foremost a valuable service to the public, especially in times of emergency.

We should be able to demonstrate the advanced capabilities during the 2026 SET.

2024 Phase 1: Fill the Gap. Extend voice communications between (Simulated) EOC, an Incident Command Post in a communications dead zone, and mobile/hand-held radios at or beyond the western edge of Leavenworth County.

2025 Phase 2: Fill the Suite. Demonstrate everything in Phase 1 plus real-time reporting of mobile unit positions, and, provide a path to send pictures from mobile and hand-held radios back to the EOC.

2026 Phase 3: Fill the Need. Demonstrate everything in Phases 1 and 2 plus two-way video teleconferencing, data transfer, and phone service between EOC and Incident Command Post, collect/report real-time weather data from a station near the western Leavenworth County border to the EOC, and, provide a live full-motion video/audio color camera with remotely controlled Pan-Tilt-Zoom for the EOC.

2024 Exercise Scenario. A wildfire is progressing from the west fueled by drought-dry grasslands and strong winds from the west. The leading edge of the fire is almost 20 miles long and is just west of Perry Lake in Jefferson County. Leavenworth Co. Emergency Management is requesting observers to position along the western county line. Evacuation orders and other aggressive emergency response depends on whether the fire jumps both the lake and farms that, at this time of year, should greatly retard the fire. The next 4 hours are critical and resources are stretched so the Communications Unit Leader (COML) has requested AUXCOMM (Amateur Radio Emergency Service®) to provide observers and report using Fire Observation Report forms.

Set Up. We have tested the two components for the 2024 SET: A cross-band repeater for voice service and Winlink via a digipeater for data service. For the SET, we will deploy these capabilities exactly as they had been tested. See Test-II results in our Groups.io files area for detail.

“What we do for SET is how we afford the Amateur Radio spectrum we use.”



2024 Simulated Emergency Test

Positions to be Filled

We will need a very good turn-out to make this exercise work well. Many hands make for a light load. If you have a position preference, please let Rick (NJØP) know as soon as possible. There are four Fire Observer teams listed. If we have more volunteers than we have positions, we will add additional Fire Observer teams.

If we fill the Simulated EOC and Incident Command positions and you want to observe/participate in either of those two areas, we'll accommodate you. Fire Observer teams can be one person but preferably two people. Experienced operators in a Fire Observer role should take along a newer licensee or someone interested in Amateur Radio to mentor them.

Simulated EOC (Saint John Hospital)

- Voice Radio Operator:
- Digital Radio Operator:
- LvCo EM: Rachael Schuette

Easton Relay (Easton Cemetery Ridge)

- Chief Operator: Max Pfrimmer, KØMDP
- Assistant Relay Operator:

Fire Observer Unit (Western Leavenworth County)

- Fire Observer Unit Coordinator: Ed Menard, KD7QOR
- Fire Observer Team 1
 - Fire Observer Team 1 Lead: Vic Henke, KEØSYO
 - Fire Observer Team 1 Member:
- Fire Observer Team 2
 - Fire Observer Team 2 Lead:
 - Fire Observer Team 2 Member:
- Fire Observer Team 3
 - Fire Observer Team 3 Lead:
 - Fire Observer Team 3 Member:
- Fire Observer Team 4
 - Fire Observer Team 4 Lead:
 - Fire Observer Team 4 Member:
- etc.

Exercise Planer/Controller/Evaluator

- Incident Command Post Evaluator:
- Fire Observer Unit Evaluator:
- Easton Relay Team Evaluator:
- Simulated EOC Team Evaluator:

ARRL Club Grant Proposal Now the Hard Part

The project to create a suite of remotely accessed VHF/UHF and HF radios is beginning to get some legs. The concept was reviewed by John Knutson, Emergency Preparedness Regional Coordinator for Prime Healthcare, that owns Saint John Hospital. He will be taking it to hospital leadership, but he is confident that the project will be approved to be housed there.

Rick – NJØP is leading an effort to write an ARRL Club Grant request to facilitate education in application development for software-controlled radios, kit building for computer-to-radio interfaces, and procedures for the installation and operation of the equipment needed for a distributed emergency operations capability.

Our ask of Saint John Hospital is for additional space and power to increase the number of radios, antennas, power, and rack space.

When complete, the station will be accessible anywhere in the hospital, anywhere in the Leavenworth County EOC, and from any location accessible via the Mesh network.

Check-ins on our Pilot Knob Amateur Radio Weekly Nets

PKARC 7:30 PM Wednesday Night Net ♦ 147.00 with + offset 151.4 Tone

7 August (12)

WAØSRS ---- Steve*
 KBØYME ---- Loren
 AAØMV ---- Steve
 WØSER ---- Steve
 K2SCT ---- Scott
 NØCS ---- Pete
 KAØARW ---- Jeff
 KFØPIB ---- Chris
 KEØSYO ---- Vic
 KFØQAL ---- Loren
 NRØR ---- Mark
 KFØKOS ---- Guy

* NCS

14 August (16)

WAØSRS ---- Steve*
 KBØYME ---- Loren
 NRØR ---- Mark
 WØSER ---- Steve
 AAØMV ---- Steve
 KB7CLX ---- Shawn
 KFØKBC ---- Keith
 KFØKOS ---- Guy
 KFØPIB ---- Chris
 KAØARW ---- Jeff
 NJØP ---- Rick
 KAØDJR ---- Dick
 KDØHOY ---- Ron
 KEØSYO ---- Vic
 KFØQAL ---- Loren
 W6BDD ---- George

21 August (16)

WAØSRS ---- Steve*
 AAØMV ---- Steve
 WØSER ---- Steve
 NRØR ---- Mark
 KBØYME ---- Loren
 KFØPXE ---- Thad
 K2SCT ---- Scott
 KDØDJR ---- Dick
 KFØKBC ---- Keith
 KFØPIB ---- Chris
 KAØARW ---- Jeff
 KCØCQD ---- Dave
 NJØP ---- Rick
 KØMDP ---- Max
 KD7QOR ---- Ed
 KDØHOY ---- Ron

28 August (18)

WAØSRS ---- Steve*
 AAØMV ---- Steve
 WØSER ---- Steve
 NRØR ---- Mark
 KB7CLX ---- Shawn
 KFØKOS ---- Guy
 KDØHOY ---- Ron
 KCØCQD ---- Dave
 KFØKBC ---- Keith
 KAØARW ---- Jeff
 KD7QOR ---- Ed
 KEØSYO ---- Vic
 KBØYME ---- Loren
 NJØP ---- Rick
 KFØDQA ---- Phil
 KFØQAL ---- Loren
 KØLBR ---- Steve
 KFØRII ---- Jasmine

Jarbalo Amateur Radio Association



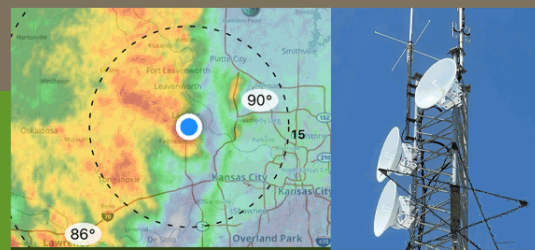
Activate **WIRES-X**

Check us out at JARA.signaleer.us
 Experiment and have fun!

President: Max Pfrimmer – KØMDP
 Vice President: Steve Rice – WØSER
 Trustee: Rick Reichert – NJØP

Sunday 7 pm Net

Agenda
 Pre-Net Admin
 NTS Traffic
 Check-ins
 Picture-of-the-Week
 Announcements
 Training
 Comments
 Adjourn



Jarbalo Amateur Radio Association

Sunday Evening UHF Net Roster
 WØROO/R 444.800 MHz + C4FM DN T:00 R:00

| Aug-2024 | Name | 04 | 11 | 18 | 25 |
|----------|--------|-----|------|------|-----|
| KAØDJR | Dick | X | | | X |
| KZØIMO | Roxann | | ANCS | | X |
| KCØJBE | Todd | X | | | |
| KFØKBC | Keith | | LOG | LOG | |
| KFØKOS | Guy | LOG | X | X | X |
| KØMDP | Max | | | π* | |
| WØMNA | Gary | π* | π* | | π* |
| NJØP | Rick | | NCS | NCS | NCS |
| KBØPFH | Ernie | | | | π* |
| KD7QOR | Ed | X | X | X | X |
| NBØR | Brian | X | | X | |
| KFØROB | Rob | | | | X |
| WØSER | Steve | NCS | π* | X | X |
| WAØSRS | Steve | X | X | X | X |
| KEØSYO | Vic | X | X | ANCS | |

The fastest 1/2 Hour on Ham Radio!

SEPTEMBER TRAINING

Discussions this month will be around programming Yaesu System Fusion capable radio, especially those to be used as part of the October 5th SET. Per the EC, "There are no plans to use Fusion capabilities for command and control this year". However, Fusion-capable radios can certainly be used on the analog FM cross-band repeater. The Yaesu radios have a robust memory system that are perfect for storing and using our Golden-99 list of channels. For the 2025 SET, Fusion will be an ideal mode to send pictures from the field. Between now and 2025 SET, we'll need to create and test a Fusion-capable relay station.

MESH UPDATE

Systems are up and operational. We'll need to do some tweaking after SET to prepare for the Metro Area Hospital Exercise scheduled to take place on Oct 25th. Still no progress on the activation of the hub at Roswell Tower.

NØZZN TRIBUTE

Steve Roady, NØZZN, passed away in June. He and Rick, NJØP, became good friends through Amateur Radio. His ravaging lung fibrosis didn't curb his desire to participate in club and ARES® activities but, in his last year, the rapid deterioration of this health made contributions impossible. Steve Roady, NØZZN, SK.

Upcoming Special Events

September 14 Fred Harvey House Museum on the Air PKARC Special Event
Where: Museum Parking Lot 620 Olive St, Leavenworth KS 66048
Time: Setup 8:00 AM Activating 9:00-15:00



Who was Fred Harvey???

In the late 1800's Fred Harvey created a much needed and welcomed hospitality for the western railroad passenger traffic. This was prior to what became dining car service. He opened lunch counters and dining rooms along the Santa Fe Railroad that offered fresh food, clean kitchens, fine china and a wonderful wait staff that became to be known as the "Harvey Girls". This was the first national restaurant chain, over time there were 47 Restaurants in 12 states. **The Fred Harvey House Museum** captures all of this history and more as Fred Harvey's ventures further expanded thanks to his sons Ford and Byron following Fred's death in 1901 at age 65. The family lived in this Leavenworth Home beginning in 1883. One of the most famous resorts that opened 1905 is the El Tovar Hotel at the rim of the Grand Canyon, it was originally operated by the Fred Harvey company.



September 26 5:00 pm – 7:00 pm
Information Table and Demonstration Station
Twin Oaks Retirement Community Bike and Car Show
Where:457 Eisenhower Rd, Lansing KS 66043