LARK NEWS September 2024

Livermore Amateur Radio Klub LARK is an ARRL affiliated club dedicated to Public Service Volunteer Emergency Communications.

Meetings are once a month on the 3rd Saturday 9:30AM

VENUE: City of Livermore Meeting Hall

1016 S. Livermore Ave., Livermore CA 94550

Available live via zoom by invitation only. Visitors Welcome

Editor: Gregory Kiyoi KN6RUQ

Photo by Kim, N6LVQ

Photo by Greg KN6RUQ

Photo by Roberto, K6KM

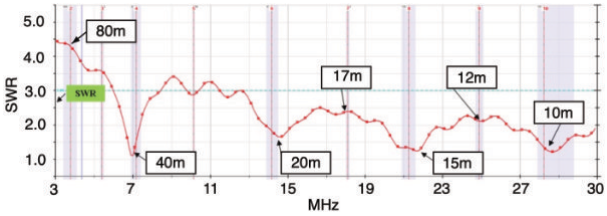

Diagram by Gary, NA6O

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Presidents Message

I want to thank **Bernie NJ6W**, **Noah N6TW, and David KG6WIR** for making the coffee and picking up the refreshments for monthly meetings. This effort is appreciated by all who attend the meeting.

I wanted to let you know that the Events Chairperson (me) is following the upcoming events for 2024, and I have an update: The following events will be happening:

- **Pacificon LARK Booth on Saturday & Sunday, October 19th and 20th**
- **Pacificon Swap Meet on Sunday, October 20th**
- **Cycle for Hope Bike Ride Event on Sunday, October 20th**

We need volunteer radio support for all events and any level of experience is welcome.

As more events are confirmed you will be kept advised. Make sure to sign up on the LARK website for these events for which LARK supports.

I wanted to thank **Ron AD6KV** and **VE Team** for continuing to provide a way for hams to get their testing completed.

Ian W6TCP continues to work on enhancing the repeaters for use by all of us so please report any issues to Ian by email.

I encourage you to check in with the LARK Monday, Wednesday (10.10 Windfarms Net), and Thursday night nets, held every week. There are other nets available, and they can be found on the LARK website.

It is good experience getting on the air. I want to thank **Ed Diemer AE6D** for coordinating the weekly nets. By participating in the nets, you'll hear what is going on in our Ham community.

We are meeting In-Person at the Livermore City Meeting Hall each month on third Saturday, and we are also offering the meeting on Zoom for those who prefer that way to attend.

Wishing you all stay healthy and stay safe.

George KG6GEM (kg6wiu1@comcast.net)

Notes from the Editor

Few tidbits to check out

Hawaii QSO Party
It starts 0400 UTC August 24th through 0359 UTC August 26th . Bands include 10, 15, 20, 40, 80, and 160 with CW, SSB, and digital modes.

It is sponsored by Maui Amateur Radio Club (MARC) KH6RS and ICOM. For more information check https://www.hawaiiqsoparty.org

Inexpensive DIY VHF UHF Moxon for SSB/CW by DL2MAN
I saw this video on youtube and looked like a fun project to tinker with. The video covers where the design came from and assembly. The 3d stl files are included as well. Check out these links for more information:

- https://youtu.be/9c3AjUn_Vvo
- https://www.printables.com/model/976419-vhf-moxon-antennas

Thank you to **Jeff Tolhurst N6JWT** for these HAM funnies. He is the editor of the Tuolumne County Amateur Radio Electronics Society - tcares.net

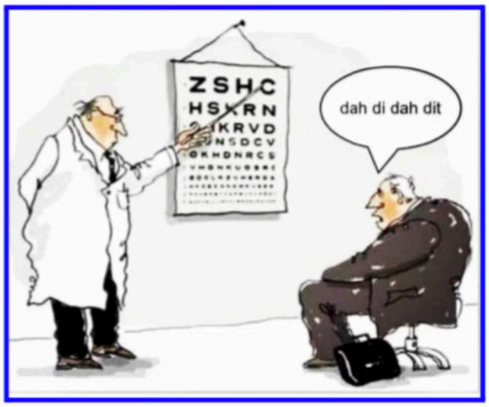
Reminder the **Coastal Region exercise** is scheduled for August 22, 2024. See **Ron AD6KV** posting on the LARK group for details - https://livermoreark.groups.io/g/main/message/15049

Please send any ideas and content to me.

Gregory KN6RUQ

Question: Why do ham radio operators like integrals from calculus so much?

Answer: They find dx in every single one of them!



Monthly Meeting Minutes

LARK General Meeting | August 17, 2024 | Minutes

Call to Order

1. Meeting called to order by George KG6GEM at 9:35am.
2. George welcomed guests to the meeting.
3. 31 attendees on Zoom.

Presentation

1. George KG6GEM introduced Jerry N5KA to begin Gordan West WB6NOA's presentation "Emergency Prep for Ham Radio Operators"

Treasure's Report – Peter AI6RG

1. Bank account balance is stable.
2. A reminder we might have a backlog of reimbursements, please bring receipts to Peter at the September meeting.

Activities – Jerry N5KA

1. September: Lee KI6OY will talk about State QSO parties.
2. October: No Meeting due to Pacificon in San Ramon
3. November: A fun new way to learn Morse Code by Jim W6JIM member of Long Island Morse Code Club
4. December: Holiday gift exchange
5. Need suggestions for future months' presentations, please contact Jerry N5KA or Steve K8YIP with ideas.

Events Update – George KG6GEM

1. Pacificon SWAP MEET and LARK BOOTH, October 19th and 20th
2. Cycle for Hope Bike Ride in Dublin October 20th
3. Go to the LARK website to sign up to volunteer for these events.

Newsletter – George KG6GEM

1. Monday night deadline for the newsletter, get articles to Greg KN6RUQ.

Membership – Julian WB6BDD

1. 160 members, a few new members have joined since last meeting.

Old Business

1. Minutes from the July regular and board meeting approved unanimously.

Repeaters – Nate N8MOR

1. Continue to work on WA6ODP. Will have more updates to follow. AD6KV and W6SRR are working and good alternatives.

VE Testing – George KG6GEM

1. Let Ron know in advance of the meeting if you would like to take a test.

Operating

1. Patterson Pass Road race went well, George thanked everyone for the assistance.

Ask the Elmer – Lee KI6OY

1. Nate N8MOR says when you use a computer for CW it's harder, why? Lee: You can send beautiful CW but sometimes receiving is difficult and the decoder fails to start if the signal isn't really strong. It's also a good way to learn CW.
2. The propagation is fantastic, get on the air! 10 meters is opening up.

Adjournment

1. September Club Meeting will be in person and on Zoom.
2. George KG6GEM adjourned the meeting at 10:36 AM

Minutes submitted by:

_____

Ryan Mahoney (W6RAM) – LARK Secretary

Board Meeting Minutes

LARK Board Meeting | August 12, 2024 | Minutes

Attendees: George, Chris, Ryan, Nate Jerry, Roger,
Absent: David, Peter

Call to Order

1. Meeting called to order by George at 7:32 PM.

Treasure's Report – George

1. The club's finances are in good shape. Rich Combs is doing well with sales.

WA6ODP – Nate

1. Offline until power to site is restored
2. Instructed not to do site improvements
3. The club should put together documentation such as an SOP/MOU to avoid single point of failures – website hosting, AD6KV repeater, and WA6ODP.
4. Chris will talk with Ian and report back to the board.

Activities – Jerry

1. All meetings are covered through the end of the year.
2. September: Lee KI6OY will be presenting State QSO Parties
3. October: No meeting - Pacificon
4. November: Learn Morse Code
5. Jerry and Steve K8YIP are working on 2025.

Events – George

1. Looking for more volunteers for the SWAP MEET and LARK BOOTH at Pacificon in October 2024
2. Sunday October 20th Cycle for Hope Bike Ride

Membership – George

1. Approximately 160 paid members

Adjournment

1. George adjourned the meeting at 8:13 PM.

Minutes submitted by:

_____

Ryan Mahoney (W6RAM)– LARK Secretary

Community Activities

We NEED You!
Sign Up NOW

Pacificon 2024, Sat & Sun, Oct 19 & 20, 2024

LARK Booth: Opportunity to tell people about LARK and encourage them to join LARK. Sat (9am-6pm) & Sun (9am-2pm) 2-3hr shifts. You can sign up for multiple shifts. **https://www.signupgenius.com/go/10C0844AEAD28A6FA7-44377069-lark#/**

Swap Meet: LARK has hosted this event for the MDARC Radio Ham Club in the past years. We have been requested to support this event again this year. There are two shifts on Sunday (4am & 9am). **https://www.signupgenius.com/go/10C0844AEAD28A6FA7-pacificon1#/**

Cycle of Hope Bike Ride Event - Sunday, October 20, 2024

https://www.signupgenius.com/go/10C0844AEAD28A6FA7-44577659-cycle

This is a fund-raiser bicycle ride of up to 50 kilometer. There is a need for radio volunteers for this event that starts and finishes in Dublin. Support is needed for SAGs and Stationary Posts from 7am to 3pm.

Antenna of the Month

Off-Center Fed Dipole by Gary, NA6O

Your Mileage May Vary, they say, and that certainly applies to this type of antenna. One way to access many HF bands on a single wire antenna is to feed a dipole off-center. Depending upon how much space you have, it may be designed to cover most of the bands 80 through 10 or 40 through 10 m with a usable match. You might also get it to work on 6 m. An antenna tuner is almost always a requirement since it will only rarely exhibit a low SWR. Like any horizontally-polarized antenna, it helps to mount it as high as possible and height will also change the impedance, sometimes drastically. There are countless designs on the web as well a commercial ones. In this article, we'll look at a typical design (Fig. 1) and consider some of the challenges associated with this popular antenna.

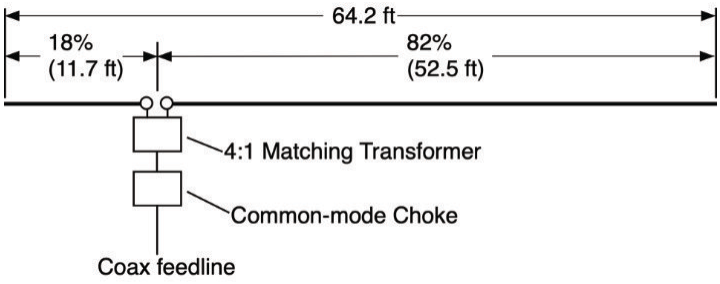


Figure 1. Components of a typical 40 through 10 m OCF dipole,

Recall that any conductor will radiate as long as you can get RF current to flow in it, and where you connect the feedline along a dipole doesn't change the radiation pattern or the gain; it only changes the feedpoint impedance. The only other requirement is that you achieve a decent impedance match at your transmitter in order to transfer maximum power. With the OCF, we adjust both the length and the feed point location until the feed point impedance is **roughly the same** on most of the bands, starting with the one where the antenna is 1/2 wavelength long.

By "roughly the same," I don't mean 50 ohms, and in fact it's generally around 200 ohms or perhaps higher, and it's not just a pure resistance. So the first thing we need is a wide band matching device at the feedpoint. A 4:1 impedance transformer is the standard choice.

The second thing we need is a robust common-mode choke on the coax. Because the antenna is highly asymmetrical, substantial common-mode current is guaranteed to flow on the outside of the coax. In other words, the coax becomes an additional element of the antenna. This will cause several problems: Antenna tuning becomes less predictable. High RF voltage may appear in your shack, raising all kinds of havoc. And local noise (RFI) riding on the outside of the coax will be conducted to the antenna, increasing your noise floor. All of these problems are mitigated by a common-mode choke (which should be a component of nearly every antenna installation).

What kind of SWR might you see? Figure 2 shows data provided by Palomar Engineers for a 40-10m OCF installed at 30 feet. Assuming you actually get this result, any transceiver with a built-in antenna tuner is likely to match this on all the specified bands. If you're really lucky, it might also match on 80 m, though you may damage the balun/choke if you try to run very high power there. The longer 80 m designs may sacrifice the match on one or more higher bands in exchange for better results on 80. Please note that installation details can affect SWR, sometimes drastically, especially if the wire is close to other objects, near the ground, or bent into arbitrary paths. Adjusting the lengths may improve results. Plan on spending a lot of time with your antenna analyzer.

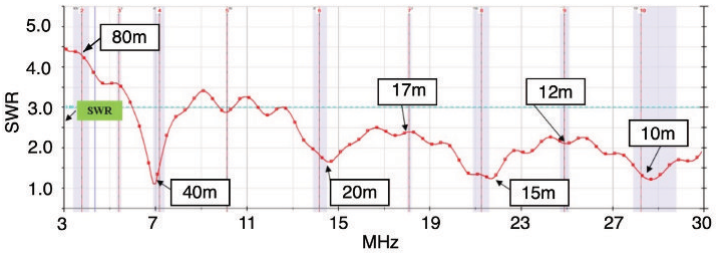


Figure 2. SWR for a 40-10m OCF. Copied from Palomar Engineers website and edited for readability. It should also work on 6 m. If you're really lucky, you might be able to use this on 80 m.

Radiation patterns from these all-band antennas can only be described as chaotic. Every band will have a different pattern with higher frequencies consisting of a great many lobes in various directions. Height will of course change everything and as always, higher is generally better. It's fairly pointless to do a lot of simulations since the results are so dependent upon installation details. This is after all a compromise antenna, not a high-gain death-ray.

Finally there is the choke/balun, a very important component. It needs a 4:1 impedance ratio, which implies a 2:1 turns ratio. It also requires a very high common-mode impedance. This can be achieved with two components, a transformer plus a choke, or with a single component commonly known as a Guanella current balun. When properly designed, it can handle high power and meets all requirements. Figure 3 shows the schematic for this device. It consists of two common-mode chokes that are driven in parallel and then connected in series at the output.

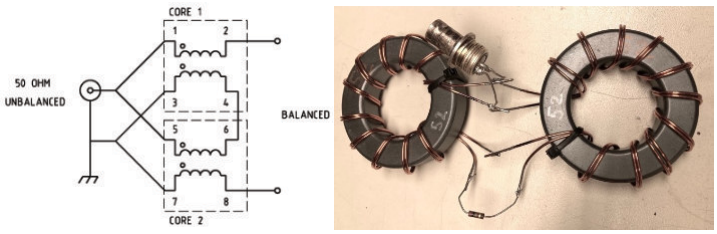


Figure 3. (Left) Schematic of a 4:1 impedance Guanella current balun using two ferrite cores. Copied from the VK6YSF website. (Right) one of my test baluns.

Ferrite core material choice is important. I tested three types (Fair-Rite mixes 52, 43, and 31) and found that the lowest loss (0.20 dB at 30 MHz) was achieved with mix 52. Mix 43 was almost as good and may also be used. All cores are 2.4 inch OD. They may be wound with bifilar magnet wire or PTFE insulated wire, preferably 14 AWG. About 9-11 turns is optimal. The VK6YSF website has some clear fabrication instructions. https://vk6ysf.com/balun_guanella_current_1-4.htm. It should be housed in a weatherproof nonmetallic enclosure, such as a 4x4x4 PVC Cantex box, available at Home Depot.

Some OCF users report problems with RF in the shack on certain bands. This is often because of insufficient choking impedance in the balun. An additional common-mode choke can be added, preferably at the antenna feedpoint but further along the feedline may also be helpful. That may also help avoid the *flaming balun* problem if you attempt to run high power.

To summarize, the OCF is likely to give you access to most of the HF bands with just a single wire. Radiation pattern will be random but certainly adequate for ordinary hamming. SWR may or may not be optimal on all desired bands in your particular installation but with some trimming it may be satisfactory and compatible with your antenna tuner. Hang it as high as you can and don't be afraid to bend it here and there to fit your yard. And always be sure to use a well-designed balun/choke.

Reference: https://palomar-engineers.com/tech-support/tech-topics/antenna-notes/off-center-fed-dipole-notes

Next Month: Portable All-Band Vertical

Everyone should explore **EZNEC** a free and very powerful program, available from https://www.eznec.com/ and discussed in the ARRL *Antenna Handbook* among other places.

Sunol Ridge Tower Maintenance Day

Greg Kiyoi, KN6RUQ

Ian W6TCP and Gary NA6O were performing maintenance on their tower on the Sunol ridge. This was the first significant maintenance since they put the tower up 6 years earlier. It is a few miles as the crow flies from W6SRR repeater.

This station is housed in a Conex 20 ft container, operated remotely and has a Elecraft K3 with 1500 watt amp, and Yaesu G-2800-DXA rotator. There are–5 antennas on a 35' Rohn 65G tower – Optibeam OB1-4030, YU2ADD 6m Yagi, JK Navassa 5, 160m Half-Sloper, and a 80m Half-Sloper.

The maintenance included:

1. Remove an M2 2m 9 element Yagi
2. Install a 6m 6 element DX Yagi (6m6dxd) Yagi in place of 2m Yagi removed
3. Remove, Inspect, Re-Install JK Navassa 5 Yagi
   a. Remove 6m extension elements
   b. Install spacers on the remaining elements
4. Replace all coax feeders for 6 antennas

Plan was to meet at Gary's at 07:30 and then a 45min drive to the tower. Ian met us at the gate. Short drive up the access road and few gates later and we were at the tower.

The climber was Mark Brenner, N9LS and he unloaded his gear and started his preparation. Ian, Gary, and I continued unloading of the new antenna, coax, tools, and other supplies. Gary had everything prepped – all bolts had anti seize compound, each coax run was labelled along with test details, and small rolls of silicone/electrical tape for coax connections.

Gary repositioned his SUV, as a tram line would be used to remove and re-install the antennas.

When the Mark was ready, Gary gave a safety briefing. Once the Mark touched the tower he was in charge. We had to stay clear around the tower as items could fall. Gary wore a hardhat so served as ground support for the climber. Providing supplies, tools, as well as confirming the work to be done.

Ian and I started working on assembling the 6m Yagi. Once majority of the assembly was complete Gary attached the feed point.

Mark sent the JK Navassa 5 yagi, which has a 12 ft boom with 33 ft elements down the tram line. We were able to get it down and onto saw horses and removed the straps.

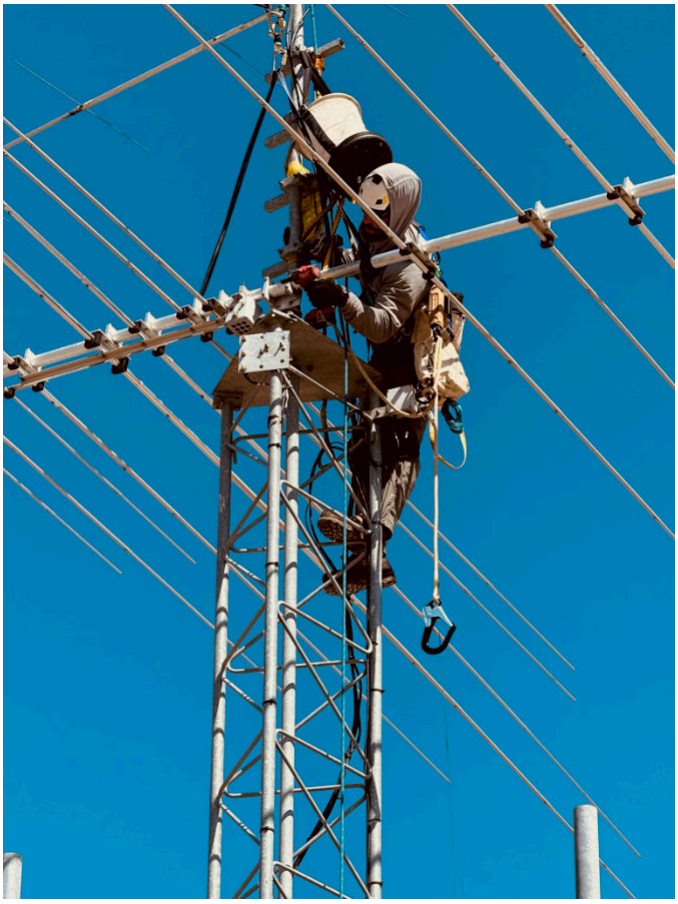
Mark then sent the 2m yagi down the tram line and it was untied and moved for disassembly later. The 6m yagi was secured to the tram line and sent back up. Mark secured it to the same location the 2m yagi was occupying on the tower.

Mark continued removing the weather proofing, old coax, and zip ties. He inspected the antenna attachment and feed points to ensure there were no problems.

Ian proceeded to remove the 6m extensions from the JK Navassa 5 as Gary inspected the feed point.

Gary fabricated several spreaders for the antenna elements. This would prevent the ends of the elements from touching when there is high wind.

Tag lines were added to each side of the antenna and the center was strapped to the tram line. With a coordinated effort the antenna was on it's way back up to the tower. The tag lines had to be pulled to keep the antenna elements vertical. This allowed Mark to grab and secure the antenna back into the mounting bracket. All straps and guy lines were removed.



The new feedlines were temporarily installed, and the rotation of the antenna was tested to confirm no binding. Mark continued to finalize securing the coax to the tower. Gary provided Grip Lock Ties for him to use. These provide a very secure connection and have enhanced UV protection.

Gary and Ian did an operational check of all antennas and bands to confirm everything was working correctly. Everything should be good for another 6 years.

After 6hrs Mark was back down on the ground. All garbage was picked up and gear was reloaded into the SUV. We arrived back at Gary's at 17:15.

Patterson Road Race

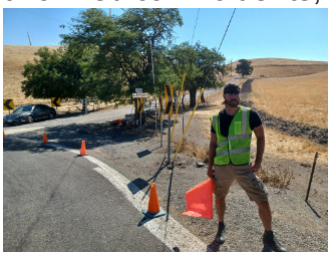
George Moorehead, KG6GEM

The Patterson Pass Road Race was held on Sunday, August 4th, 2024, in the hills East of Livermore. The heats/races covered 92 miles (4 laps of 23mi) which stretched over different elevations. When you combine the length of the course, the winding narrow road with numerous hairpins turns, the heat, and sharing the road with motor traffic, this is a challenging race.

All racers started at Patterson Pass & Midway Roads and finished on Midway Road. We had a total of 160 racers, supported by 15 LARK hams. As usual, we did a very professional job. All major areas and intersections of concern for the race were safely covered for the entire event. From the Race Director Robert "***First off you guys were great out there today. We really appreciate your support***."

Net Control was located near the Registration area. Net Control this year we are using the San Ramon Valley Fire Protection District Comm Support Unit (CS-131) which was set up in the dirt lot known as the triangle at the corner of Patterson Pass Rd and Midway Rd which was directly across the street from the power plant.

The road is narrow, and the roadside strip where we set up was not super wide either, so racers passed within a few feet of the Net Control station. At Net Control, it's important to always stay alert because when these elite cyclists pass by, they are going very fast, and they appear suddenly. You can't see them coming from a long way off, since the corner they turn before they pass by us is visually obstructed by trees. We had groups of racers speeding past throughout the event. There were two medical incidents, one requiring transport and the other was minor that was handled by the EMTs.



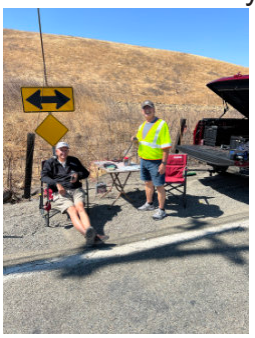
← *Barnes by John W6JMK*

At N. Flynn Rd, race organizers installed padding around a telephone pole. Two riders slid off the road missing the padded pole and slide into a fence. Both were not injured.

A station at W. Grant Line Rd and N. Midway Rd was about 2.5mi from the finish line. It was windy with 15-20mph wind preventing umbrellas from being opened.

Kim N6LVQ's setup included a Yaesu FT-817 mobile multi-band rig powered by a 4S Li-Ion battery with a J-Pole antenna, Net control gave good signal reports.

The riders came up Grant Line and made a right turn on to Midway at this point and were traveling about 25-30mph. The run to Midway is slightly uphill but with the wind to their backs, they were having to slow down to take the corner. I was clocking them with my radar gun. There was one rider, on his 4th lap, that had a flat tire. He didn't have a spare tube so was not able to finish.



John WX6G and Tony KF6JS

The finish line was at the top of a high hill (Midway Rd & Patterson Pass Rd) about a mile from the race command post. The High Voltage power lines went right over us. That's why communications with an HT was so compromised (lots of 60 Hz distortion from the mic and audio circuit.

Jerry N5KA at Finish Line

A big thank you to all the LARK radio volunteers for helping today. Volunteers were Peter AI6RG, Steve K8YIP, Tony KF6JS, Bill AJ6UU, Alan KM6BRQ, David K6WOO, John W6JMK, John WX6G. Jerry N5KA, Brian KM6EMU, Don KN6YGO, William NJ6O, Allen AK6FB, Kim N6LVQ Chris W6CJQ, and San Ramon Valley Fire Protection District Comm Reserves AJ Lafferty, Chris Eckenrode and Brian Lindblom provided comm support in CS131.

As always, thanks for everyone's cooperation with the last-minute assignment changes and your help for this worthwhile public event. The P.P.R.R. course, although quick, is not easy for the racers and they can use the added safety net which ham radio coverage provides.

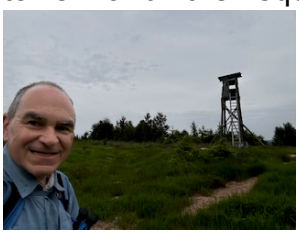
SOTA activations in Germany and France

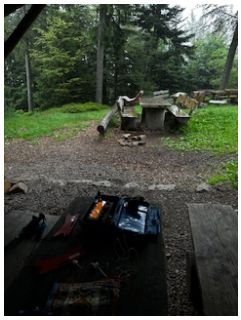
Roberto Sadkowski, K6KM

In planning for my trip to Friedrichshafen I combined a 10 day SOTA tour of the Black Forest in Germany and the Alsace region in France. I chose to stay at Todtnau in a geographical center of my German activations. This region doesn't offer the American type of accommodations; they are mostly family hotels with about 15 rooms and provide restaurant services too. Usually a friendly staff and limited English.

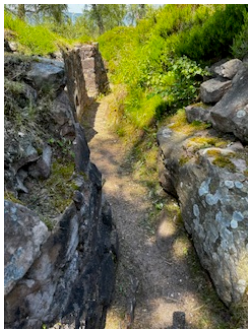
I activated 18 of the 20 planned peaks in this region. The weeks before my trip, there was flooding in many areas nearby. I was really concerned about the weather and took some extra ponchos and protection for my equipment.

The first few days were nice, with mild temperatures and long sunny days. The last few days turned rainy and stormy, so I had to move away from my original itinerary and drive opposite of the storms. That led to missing two of the peaks. In one of the peaks, the weather forecast was calling for late afternoon showers so I started my hike noon time. Once reaching the final switch backs I heard like several jet airplanes passing by. They were no planes, rumbling thunderstorms. I looked at my phone's weather forecast App and it was bright red. I rushed the final switchbacks hoping to get cover at the top. Sure enough, there was a big communications tower and the equipment housing had some overhang that could be used as shelter. I decided, however, to climb the few more feet to the true peak and there it was, an old tower build in 1893 with several picnic tables and a covered shelter with wood for winter and a picnic table inside. I set-up the antenna as the drops starting coming down. During the activation the rain just poured down and I was very worried about lightning. I finished the activation and waited a bit more for the rain to subside. Then I dismantled the station and wearing the poncho, walked all the way down to the car. Of course, the trail was a lot muddier by then.





France was very different. My 3 day activation plan had to be squeezed in two days due to weather going bad at the end. I managed to accomplish that but it was very tiresome. I decided to stay in Colmar which was a delight. A beautiful old Alsatian historic downtown. A gem, highly recommended to those who are thinking of visiting this area of France. Lots of history in this part of the border. I visited The Linge. A museum of WW1 with well-preserved German trenches and what is left of the French ones. I was surprised by how narrow the trenches were compared to what we usually see in the movies. It's possible these were particularly narrow. When finished visiting the Museum, I climbed a small hill across the parking lot to get yet, another SOTA activation.



Some observations from operating QRP in this part of EU.

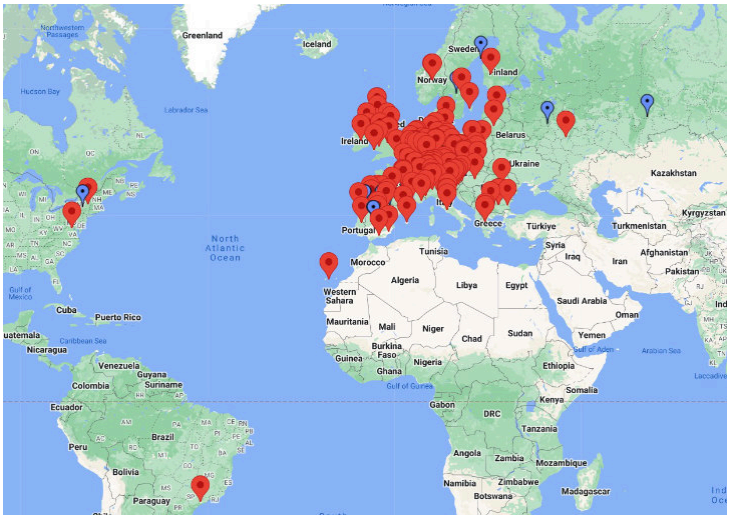
40m is the money band. Think of working OR, WA, NV, AZ, ID, UT and all CA from here during the day NVIS. Well, that's half of Europe. Signals are stronger as there are no attenuating skips.

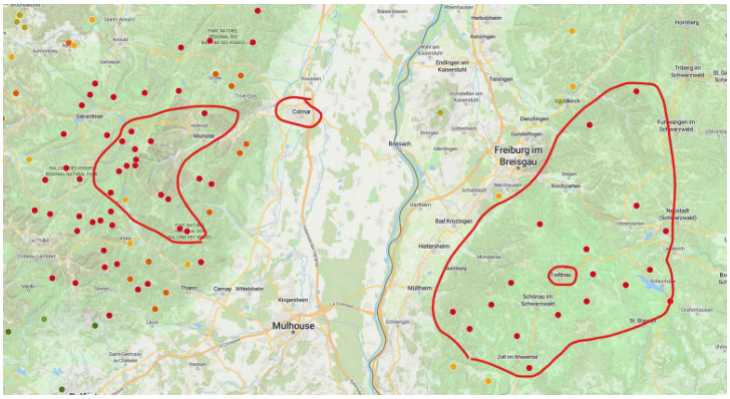
On some peaks I felt I could stay all day operating on 40m. 20m was the second best band going deeper into Scandinavia, Spain, Greece and Russia. 15m was my true DX band but it had to be way after 3PM local so the US was awake. Mostly East Coast as expected and my last activation in France I got called by a PY2.

10m wasn't particularly hot. I made some contacts but the Flux wasn't high enough.

I managed to do several Summit to Summits which are handled rather differently in EU. In my opinion very inefficiently, but go explain that to them. "Completes" happen when you have activated and chased a same peak. Well, on my last activation of the first day, I decided to look who was on a peak and there was one active on SSB. I used the internal mic of the KX2 and called this activator who was rather idle. He gave me a S9+60 report and I did likewise. He was in one of my morning peaks, just a few kilometers from where I was. That was my complete in Europe!

A true enjoyable SOTA adventure in Europe.





- **Total QSOs: 525**
- **Total Activations: 30**
- **Total Points: 296**
- **Total miles hiked: 34**
- **Total feet climbed: 12,000**
- **Total Kilometers driven: 2025**
- **Total beers consumed: Undetermined**

Training Classes

Technician Licensing Course starting, September 7, 2024

A free, weekly, live, Amateur Radio Technician Class Licensing course on Zoom. These are the classes that we have been holding for years sponsored by the National Electronics Museum.

When: Starts Sept 7th through Oct 19th
(7 sessions)

Where: Zoom

Time: 6:30pm Eastern Time (3hrs)

Those wishing to sign up should email me at roland.anders@comcast.net

Rol Anders, K3RA

One Day Ham Course - October 5, 2024

Once again, volunteers from the Benicia Amateur Radio Club will conduct a One-Day Ham Radio Class. This class is intended for those wishing to get an entry level Technician license, or existing Techs wishing to upgrade to General.

This class has been very well received by the greater Northern California community. We have helped Hams from Shasta to Santa Cruz, the San Joaquin Valley, and from the Peninsula to the Sierra Foothills.

Many of us know people that we'd love to see get into our exciting hobby but have faced opposition because they didn't have time to study. As we know, many people typically require one to two months to prepare to pass their test.
We have the answer: Earn a license or upgrade in One Day!

Historically over 90% of attendees pass the on-site FCC licensing exam. Our exams are administered by federally accredited Volunteer Examiners (VEs) immediately at the conclusion of the class. Our proven class pass rate easily exceeds home study results.

When: October 5, 2024, 8:30am - 5:00pm

Where: Benicia Senior Center
1201 East 2nd St, Benicia, CA 94510

Cost: $35. Includes all study material, venue, day-long refreshments, handouts, and the exam fee. All instructors, facilitators and examiners are volunteers. After the application is processed by the FCC you will need to pay a separate $35 fee directly to the FCC.

Info/Signup: Online at BeniciaARC.com/hamclass. Class size is limited, so register promptly.

Questions: hamradioclass@beniciaarc.com or class coordinator Bob Fentress (707) 742-3227

Swap n’ Shop Cave

This months special is soldering equipment. Irons, tips, solder, whatever you need. Also a few multimeters are available. As always, dirt cheap prices for LARK members. Drop Rich a note, then stop by and browse the Swap 'N Shop Cave.

Rich kn6hsr@arrl.net

September Calendar

Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
						1
2 Net	3	4 10-10 Net HH Net	5 Tech Net	6	7	8
9 Net	10	11 10-10 Net HH Net	12 Tech Net	13	14	15
16 Net	17	18 10-10 Net HH Net	19 Tech Net	20	21 *LARK Meeting*	22
23 Net	24	25 10-10 Net HH Net	26 Tech Net	27	28	29
30 Net						

LARK MONDAY NIGHT NET
147.120 MHZ + offset, PL 100 AD6KV
Every Monday 7 PM local time
Visitors welcome to join in

Net Control Operator Schedules

Monday Night Net Control Operator Schedule

July

Date	Net Control
7/1/2024	John / WB6ETY
7/8/2024	EOC
7/15/2024	Jon / WB6AEA
7/22/2024	Ron / AD6KV
7/29/2024	Ed / AE6D

August

Date	Net Control
8/5/2024	John / WB6ETY
8/12/2024	EOC
8/19/2024	Jon / WB6AEA
8/26/2024	Ron / AD6KV

September

Date	Net Control
9/2/2024	Ed / AE6D
9/9/2024	EOC
9/16/2024	John / WB6ETY
9/23/2024	Jon / WB6AEA
9/30/2024	Ron / AD6KV

EVERYONE is invited to check in to the net. Please contact AE6D ae6d@sbcglobal.net if you need more information or would like to become a Net Control Operator. After the net please call Ed AE6D with the AC/DC statistics or send him the information by email.

Thursday Night Net Control Operator Schedule

Date	Primary Net Control	Backup Net Control
7/4/2024	Holiday - No Net	NA
7/11/2024	Brian / KA6ZED	Peter / AI6RG
7/18/2024	Nate / N8MOR	Brian / KA6ZED
7/25/2024	Rich / KN6HSR	Nate / N8MOR
8/1/2024	David / K6WOO	Rich / KN6HSR
8/6/2024	Bill / AJ6UU	David / K6WOO
8/15/2024	Noah / N6TW	Bill / AJ6UU
8/22/2024	Peter / AI6RG	Noah / N6TW
8/29/2024	Brian / KA6ZED	Peter / AI6RG
9/5/2024	Nate / N8MOR	Brian / KA6ZED
9/12/2024	Rich / KN6HSR	Nate / N8MOR
9/19/2024	David / K6WOO	Rich / KN6HSR
9/26/2024	Bill / AJ6UU	David / K6WOO

Regularly Scheduled Nets

LARK/LIVERMORE NET	Every Mon	1900 local 147.120+	PL 100
RACES Net	Every MON.	1900 local	
Windfarms 10-10 NET	Every WED.	1930 local 28.485	USB
HamShack Hotline Net	Every WED.	1900 Bridge 363	PIN 0331
LARK TECH NET	Every THURS.	1930 local 147.120+	PL 100
LLNL Retiree Net	Every FRI 8:30 am	0830 local	7.2630 LSB
SWOT	Every Sun. & Tues.	2000 LOCAL	144.250 USB
THE NOON TIME NET	EVERYDAY	1200-1400 LOCAL	7.2685 LSB & 3970 LSB
RV RADIO NET	MON - FRI	0800-0930 LOCAL	7.2685 LSB

LARK Contacts

LARK—LIVERMORE AMATEUR RADIO KLUB P.O. BOX 3190, LIVERMORE, CA 94550-3190. Web: http://www.livermoreARK.org
E-mail list: *livermoreark@groups.io*

GET YOUR HAM LICENSE OR UPGRADE. LARK conducts all levels of license testing (upon request) at the Livermore City Council Chambers following club meetings (3rd Sat. each month). Contact Ron Kane, AD6KV (AD6KV at arrl.net) 2 weeks in advance.

OFFICE	CONTACT	CALL	E-mail	Phone
President & Events	George Moorehead	KG6GEM	kg6wiu1@comcast.net	925-516-2676
Vice President	Chris Quirk	W6CJQ	w6cjq@yahoo.com	925-202-1198
Secretary	Ryan Mahoney	W6RAM	ryan.andrew.mahoney@gmail.com	925-786-0640
Treasurer	Peter Bedrossian	AI6RG	p.bedrossian@comcast.net	925-606-1342
Board (PP)	Roger Deming	KK6RD	rogerdeming@yahoo.com	925-484-1285
Board	David Counts	KG6WIR	dlcounts@sbcglobal.net	925-895-4698
Board	Nate Moore	N8MOR	nate@nateandamy.org	925-577-4916
Activities	Jerry Benterou	N5KA	benterou@gmail.com	925-321-3263
	Steve Nissen	K8YIP	s.nissen55@gmail.com	650-270-3796
Repeater Chair	Ian Parker	W6TCP	w6tcpian@gmail.com	
Web Site	Arnold Harding	KQ6DI		
Newsletter Editor	Gregory Kiyoi	KN6RUQ	gkiyoi@gmail.com	925-456-4734
Membership	Julian Riccomini	WB6BDD	wb6bdd@gmail.com	
Net Coordinator	Ed Diemer	AE6D	ae6d@arrl.net	
RFI	Gary Johnson	NA6O	gwj@me.com	
T-Hunts	Brian Zoraster	KA6ZED	ka6zed@gmail.com	925-786-8412
	Rich Harrington	KN6FW		
Swap n Shop	Richard Combs	KN6HSR	kn6hsr@arrl.net	
Ask the Elmer	Lee Zalaznik	KI6OY	lee.zalaznik@sbcglobal.net	925-699-5998

Facebook—http://www.facebook.com/LivermoreARK
Twitter link : https://twitter.com/LivermoreARK

Special interests: View: AREDN Mesh http://www.aredn.org.

CERT NEWS: CERT contact - Email: cert@lpfire.org or (925) 454-2361
Meetings 3rd Wednesdays. Remillard RM 3333 Busch Rd. Pleasanton.

LARK Membership Form

1-

An ARRL Affiliated Club

-

Circle all that apply: New / /Family

NAME:

CALL SIGN: _____

ARRL MEMBER? Yes / No

Address:

PHONE: ( ) -

UNLISTED? ____YES _____NO

Enter your E-mail here and stay _____ _ LARK mail.

http://www.livermoreark.org/

NAME	
PHONE	
EMAIL	
ARRL MEMBER	

Membership is $20 To complete

P.O. Box 3190, Livermore, CA, 94551-3190 Please be sure -mail, and call sign are on your check.

Contact the Membership Team membership@livermoreark.org

cash or check to either Or:
pay with a credit card or PayPal account on the Club's membership page:

Team.