



JANUARY MEETING

7:30 PM, WEDNESDAY, JANUARY 12
NORTHERN LIGHTHOUSE CHURCH & ZOOM

MATT JONES, ALØR

Jim Nelson, WØJRN



In-person: Northern Lighthouse Church (6141 N 14th St, Lincoln).

Zoom: bit.ly/LARCProgram (meeting: 937 5139 3405; Passcode: 554816).

Per the Lincoln-Lancaster County Health Department's recommendations, all in-person attendees are requested to wear a mask. Thank you in advance!

Matt Jones, ALØR, is a professional tower and antenna system designer and installer. He is going to talk to us about tower and antenna installation, grounding, and safety. This presentation is part of a new series about the specifics in theory in Amateur Radio communications.

EVENT CALENDAR

JANUARY

	7	Th	6:30 pm	VE Exams	College View Church	4801 Prescott Ave
Weekly	Th		6:30 pm	VI on Thursdays	Village Inn	6555 O St
	12	W	7:30 pm	LARC Meeting	Northern Lighthouse Church & Zoom	
	13	Th	7:30 pm	SATERN Meeting	Salvation Army	2625 Potter St
	16	Su	5:00 pm	LARC Board Meeting	TBD	
	25	Tu	midnight	LOG Deadline	Email articles & ads to log@k0kkv.org	

FEBRUARY

	3	Th	6:30 pm	VE Exams	College View Church	4801 Prescott Ave
Weekly	Th		6:30 pm	VI on Thursdays	Village Inn	6555 O St
	9	W	7:30 pm	LARC Meeting	LARC Clubhouse	4420 NW 41st St
	10	Th	7:30 pm	SATERN Meeting	Salvation Army	2625 Potter St
	13	Su	5:00 pm	LARC Board Meeting	TBD	
	22	Tu	midnight	LOG Deadline	Email articles & ads to log@k0kkv.org	

Lincoln Amateur Radio Club, Inc.
P.O. Box 5006 | Lincoln, NE 68505

2022 BOARD OF DIRECTORS

President	Aaron Rogge	NØADR	402/617-0234	n0adr@ajrogge.com
Vice President	Bryan Leavitt	WØBCL	402/310-1686	w0bcl@arrl.net
Secretary	Kim Cartwright	KEØTNR	402/430-1506	kcdragon3@gmail.com
Treasurer	Alex Lewis	W3ALX	402/202-8830	alex@neblink.net
	Jim Nelson	WØJRN	402/350-2546	w0jrn@outlook.com
	Shaun Munson	KØSMM	402/853-6523	k0smm@arrl.net
	Ed Holloway	KØRPT	402/326-1139	k0rpt@arrl.net
	Mike Long	KØSHC	402/770-2427	k0shc13@yahoo.com
Club Station Trustee	Greg Brown	KTØK	402/937-3540	kt0k@arrl.net

2022 COMMITTEES

Committee	Liaison	Chair	Phone	Email
Activities				
Awards	KØRPT	Ed Holloway, KØRPT	402/326-1139	k0rpt@arrl.net
Bylaws	NØADR	Alex Lewis, W3ALX	402/202-8830	alex@neblink.net
Club Inventory		Randy King, KØNC	402/450-0978	randyking1958@gmail.com
Club Station	NØADR	Ed Holloway, KØRPT	402/326-1139	k0rpt@arrl.net
Convention	KØRPT	Ed Holloway, KØRPT	402/326-1139	k0rpt@arrl.net
Education	NØADR	Bryan Leavitt, WØBCL	402/310-1686	w0bcl@arrl.net
Elections		Alex Lewis, W3ALX	402/202-8830	alex@neblink.net
ARES Coordination	KØRPT	Ed Holloway, KØRPT	402/326-1139	k0rpt@arrl.net
Estate Assistance	KØRPT	Gordon Trout, WØKBS	402/580-5326	w0kbs@twc.com
Field Day	WØJRN	Ed Holloway, KØRPT	402/326-1139	k0rpt@arrl.net
Holiday Party		Maureen Sadler, KDØONM	402/366-7828	emkay586@gmail.com
LOG Editor		Aaron Rogge, NØADR	402/617-0234	log@k0kkv.org
Mentorship	WØJRN	Greg Brown, KTØK	402/937-3540	kt0k@arrl.net
Nets	KØRPT	Eric Bigham, KØJIA	402/467-1680	k0jia@xsmail.com
Public Relations	KØRPT	Shaun Munson, KØSMM	402/853-6523	k0smm@arrl.net
Public Service				
QSL Cards	W3ALX	Greg Brown, KTØK	402/937-3540	kt0k@arrl.net
Repeater	KØRPT	Ed Holloway, KØRPT	402/326-1139	k0rpt@arrl.net
Tower/Antenna Crew	WØJRN	Shaun Munson, KØSMM	402/853-6523	k0smm@arrl.net
Transmitter Hunts				
TVI/RF	KØRPT	Shaun Munson, KØSMM	402/853-6523	k0smm@arrl.net
Website	W3ALX	Aaron Rogge, NØADR	402/617-0234	n0adr@ajrogge.com

PRESIDENT'S COLUMN

Aaron Rogge, NØADR, LARC President



Welcome to 2022! Before 2021 gets too far behind us, I believe it is good to look back and say, "Thank you." It's exciting to look back on a year filled with so much uncertainty and remember the good efforts of LARC members.

Thank you to everyone who assisted with public service. Despite COVID-19, we could still get out and help in the community. A huge thank you to Mike Long, KØSHC, for the many years he has spearheaded our public service efforts.

Thank you to everyone who helped us prepare for Field Day. It was a great time to get together, play with some RF, and visit.

Thank you to everyone who continued to participate in the monthly meetings, both online and in-person. We have had some excellent presentations.

Thank you to our outgoing Board members: Maureen Sadler, KDØONM, and Greg Brown, KTØK. Thank you for all the hours you have spent helping grow and keep this club operating smoothly.

With the New Year, we welcome two new

Board members: Shaun Munson, KØSMM, and Alex Lewis, W3ALX. Ed Holloway, KØRPT, and Jim Nelson, WØJRN, were re-elected.



2022 elected Board members

During the December Board meeting, the officers for 2022 were selected.

Kim Cartwright, KEØTNR, continues as secretary. Alex Lewis, W3ALX, is taking over as the treasurer. Bryan Leavitt, WØBCL, is the new vice president. This will be his third term in this position. I am excited to serve LARC as your president for 2022.

The big news is that at long last, LARC has a home and new club station. The paperwork is just being finalized, so for January, we will still meet at Northern Lighthouse. If all goes well, we will meet at 4420 NW 41st St in February. There is still some work to be done, so stay tuned!

I invite you to join me at the upcoming club meetings, participate in public service, get involved with Field Day, keep the air full of RF and goodwill, and make this year a successful one for LARC and Amateur Radio.



SILENT KEY: JACK HENRIQUES

Richard Henriques, KDØONN

Alexander D. Henriques (Jack), KCØYL/SK, was born March 30, 1931, in Jamaica, British West Indies, to Wallace and Edna Henriques. He was the sixth of eight children and the first boy. His mom left Jamaica for the US, where she joined other family members, sending for the children one by one.

Jack came to the US in 1950, selling his beloved violin to pay for the trip. He initially attended LaSierra College in California, but when his brother John went to the US and enrolled at Pacific Union College, Jack transferred to PUC to be with his brother and graduated with a degree in English. He worked in the PUC print shop, and since printers were in high demand, he continued with the occupation and worked for Pacific Press Publishing Association for 12 years.

Jack married Marilys Affolter, and Richard was born in 1961. Marilys died from heart problems in 1963. He married Diana Young in 1964, and Joan was adopted at the end of that year. Jack became a citizen of the United States of America in 1965. Four years later, he moved his family to Kansas, received his master's degree, and taught at Enterprise Academy and then at Ozark Academy in Arkansas. The family arrived at Lincoln in 1979, where he worked for College View Printers and then finished his career at Christian Record Braille Foundation (now Christian Record Services, Inc.). Jack also taught printing at Southeast Community College.

Jack enjoyed working on machines. He maintained his own cars, worked on the

presses he operated, and built radios and antennas. Some of that rubbed off on his son. Jack was an Amateur Radio operator (KCØYL) and a Lincoln Amateur Radio Club member. He volunteered for SKYWARN and Red Cross Disaster Response. Jack enjoyed traveling, and the family will always remember exploring the countryside on many journeys, crossing the US several times.

Jack was a lifelong Seventh-day Adventist. He was a Master Guide and volunteered as a Pathfinder counselor at Mountain View and Enterprise churches. Jack was a member of College View Church for over 40 years.

Jack and Diana were happily married for 58 years. He was a soft-spoken, kind, gentle person who loved the Lord. He enjoyed studying his Bible every day and looked forward to his Lord's return.

He will be missed by his wife Diana, his children Richard (Andrea) and Joan (Kimber), six grandchildren, one great-grandchild, his brother John and his sister June, and his many friends.

Jack's memorial service was on Friday, December 3, in the Heritage Room at College View Church of Seventh-day Adventists in Lincoln. Condolences may be left online at www.lincolncfch.com.

If you know of a silent key, please email log@k0kkv.org with details and a short obituary to share with your fellow Hams.

SILENT KEY: LARRY OHS

The family of Larry Ohs and Ed Holloway, KØRPT



Larry D. Ohs, KCØLXQ/SK, age 67, of Lincoln passed away on December 25, 2021. Larry was born on September 1, 1954. He is preceded in death by his father, Dwight Ohs.

He leaves behind his wife of 45 years, Betty; his children Ryan, Matthew (Annie), and Logan (Anjli) Ohs; his mother Sara Lee Ohs; his siblings Bradley (Sandy) Ohs, Carmen (Bob) Shively, and Cortney Ohs, and many nieces and nephews.

A memorial service was held on Thursday, December 30, at South Gate United Methodist Church in Lincoln with a private inurnment at Rosewood Cemetery in Palmyra.

In lieu of flowers, the family requests those who wish to memorialize Larry consider making a gift in his name to the Cornhusker Council BSA, South Gate United Methodist Church, or Nebraska Wesleyan University. Condolences may be paid online at Roperandsons.com.

Saturday, December 25, 2021 — It is with deep sorrow that I report to you the passing of a long-time friend and fellow Amateur Radio operator. This morning, Larry Ohs, KCØLXQ, passed after a long and courageous battle with cancer.

Larry was a member of the LARC and a long-time member of ARES. Larry filled the role of FEMA Liaison to LEOC.

Some of you may remember the tornado that took out Hallam, NE, in 2004. Larry was assigned to Point 5.0, just a mile west of Hallam, and the tornado destroyed his car. Fortunately, Larry escaped.

Recently, Larry and I rode together to Cass County to attend a Southeastern Nebraska NeARES presentation by James Nelson, WØJRN. We had some genuine laughs and serious talks about life in Amateur Radio.

As a retired lawyer of business contracts, Larry's input and assistance paved the way for many LARC ventures. Larry not only assisted LARC but many other clubs, including NeARES.

I will greatly miss our long talks on the phone and many laughs. RIP, Larry!

EDUCATION UPDATE

Aaron Rogge, NØADR



We plan to resume classes, starting with the Extra class in February. If you are interested in upgrading your ticket, please send an email to Bryan Leavitt, WØBCL, at w0bcl@arrl.net, and let him know what day(s) of the week and time(s) work best for you to be in this class.

Please know that this class involves a significant time committment. In order for the class to be offered, a minimum of 10 people, who intend to complete the full curriculum, must be enrolled.

2021 LARC AWARDS

presented by Ed Holloway, KØRPT, LARC President



Jerry Cohn Award:
James McKenzie, KCØML



Steve May Award:
Shaun Munson, KØSMM



Jerry Cox Award:
Jim Nelson, WØJRN

LARC HAS A HOME!

Ed Holloway, KØRPT

With the help of the administration team of Lincoln Airport Authority, LARC now has a home for club and Board meetings, education, Field Day, and any other club event we have each year.

Thanks to the leadership team of the LARC Board and all others who have helped to make this happen. Also, thanks to the kind folks at the Masonic Lodge at 26th and B Streets, we have chairs to sit on during our meetings.

We have entered into a use agreement for a building, formerly known as the Lancaster County Corrections Facility.

Along with this, we have also entered into an agreement for the new LARC club station. It has taken some time to make this happen and I'm proud to be able to say, "We have succeeded!" We hope to have the building ready for our first club meeting to be held in February.

QUIZ TIME: EXTRA CLASS

QUESTIONS

ARRL

Grab your pen and give these questions a try. The answers are on page 11.

1. Which of the following is required in order to operate in accordance with CEPT rules in foreign countries where permitted?

- A. You must identify in the official language of the country in which you are operating
- B. The U.S. embassy must approve of your operation
- C. You must bring a copy of FCC Public Notice DA 16-1048
- D. You must append "/CEPT" to your call sign

2. What is meant by the term mode? as applied to an Amateur Radio satellite?

- A. Whether the satellite is in a low earth or geostationary orbit
- B. The satellite's uplink and downlink frequency bands
- C. The satellite's orientation with respect to the Earth
- D. Whether the satellite is in a polar or equatorial orbit

3. What is the maximum bandwidth for a data emission on 60 meters?

- A. 60 Hz
- B. 170 Hz
- C. 1.5 kHz
- D. 2.8 kHz

4. What is a Pennant antenna?

- A. A four-element, high-gain vertical array invented by George Pennant
- B. A small, vertically oriented receiving antenna consisting of a triangular loop terminated in approximately 900 ohms
- C. A form of rhombic antenna terminated in a variable capacitor to provide frequency diversity
- D. A stealth antenna built to look like a flagpole

5. What special operating frequency restrictions are imposed on slow scan TV transmissions?

- A. None; they are allowed on all amateur frequencies
- B. They are restricted to 7.245 MHz, 14.245 MHz, 21.345 MHz, and 28.945 MHz
- C. They are restricted to phone band segments
- D. They are not permitted above 54 MHz

6. How does the spread spectrum technique of frequency hopping work?

- A. If interference is detected by the receiver it will signal the transmitter to change frequencies
- B. If interference is detected by the receiver it will signal the transmitter to wait until the frequency is clear
- C. A binary bit stream is used to shift the phase of an RF carrier very rapidly in a pseudorandom sequence
- D. The frequency of the transmitted signal is changed very rapidly according to a pseudorandom sequence also used by the receiving station

2022 MEMBERSHIP DUES

Aaron Rogge, NØADR

It's time to renew! Memberships are on the calendar year, January through December. Your annual membership helps fund club activities and provides for this LOG.

If you're not an LARC member, now is the perfect time to join. **Anyone, licensed or not, who has an interest in Amateur Radio, is welcome.**

There are many ways and opportunities to join or renew: at the holiday party, at a club meeting, by mailing the form on the back of this LOG, or by submitting the form at k0kkv.org/membership.

2022 NE ARRL CONVENTION

Ed Holloway, KØRPT, 2022 Convention Committee Chair

Please lock this date into your calendars — Saturday, May 14, 2022 — for the next ARRL Nebraska Hamfest. Let's plan to make it another great success.

Look for new and familiar details in upcoming issues of the LOG, www.k0kkv.org, www.lincolnhamfest.org, and www.neares.net.

VES NEEDED

Chris Evens, KCØPJR, VE Coordinator



Would you like to become a Volunteer Examiner (VE)? Based on low VE turnouts at recent exam sessions, it looks like we need more help!

Learn more here: www.arrl.org/become-an-arrl-ve.

VE REPORT

Chris Evens, KCØPJR, VE Coordinator



The December session at College View Church was very challenging as we scrambled to have three VEs available to hold the session. Thank you, Aaron Rogge, NØADR, for somehow pulling off being three places at once so we could have our third VE.

We had five candidates at our session. Unfortunately, only three passed an exam for a new or upgraded license. They are as follows:

TECHNICIAN

- ◆ Steven Landreth, KFØHJK, Lincoln

GENERAL

- ◆ Mark Albrandt, KØVTX, Lincoln
- ◆ Quinn Wetzel, KFØHCE, Lincoln

Congratulations to our new and upgraded licensees!

This month we had NØADR, WØBCL, and KCØPJR assist with the session. Thank you for donating your time and energy to promote Amateur Radio.

Until further notice, all participants, including VEs and examinees, are required to wear a face covering throughout their time inside the VE location, College View Church.

BEST CHOICE UPC LABELS



Save your UPC labels from Best Choice products purchased at Russ's or Super Saver to bring to the club meeting.

PASSING THE BATON

Ed Holloway, KØRPT

This year has been fun to exercise our abilities in overcoming obstacles. We've made a lot of progress as a club, and I look forward to seeing how far we can go.

I just got the lease agreement for the new meeting place, and we are shooting for getting keys by Saturday, January 1. We should all thank the members of the Craftsmen Lodge #314 AF and AM, located at 26th and B Streets, for their gracious donation of chairs.

Greg Brown, KTØK, will start building the new club station and adding our history to the walls. We will still have access to the Northern Lighthouse Church while getting the new place ready for meetings.

I want to thank everyone who participated in events in 2021. We, as a club, certainly can't do it without you. Thank you for supporting our club, its leadership team, and the events we've come to know so well.

We're looking forward to some seriously exciting fun in 2022 with new surroundings and hopefully some new faces.

Lastly, I want to thank the LARC Board of directors. You have been patient and understanding while I've made moves to push our club forward toward a positive future. Together we have successfully carved a path for the club's growth that has not been done before. Thank you!

See you at the next club meeting!

DAYTON HAMVENTION 2022

ARRL



Dayton Hamvention® organizers are planning to mount

the first in-person show in 2022, following two years of COVID-related cancellations. The event is set for May 20 – 22 at the Greene County Fairgrounds and Expo Center in Xenia, Ohio.

Last January, Hamvention organizers from the sponsoring Dayton Amateur Radio Association (DARA) announced they were calling off the 2021 event after considerable planning was already under way. The Hamvention Executive Committee cited lagging COVID-19 vaccine distribution in the US and the emergence of a more communicable form of the virus.

Southgate Amateur Radio News quotes Hamvention General Chairman Rick Allnutt, WS8G, as saying that Hamvention committees "have been meeting, and volunteers are committed to making up for the time lost to pandemic cancellations."

The Hamvention website is already accepting bookings from vendors and inside exhibitors, and individual visitors can already buy tickets, which Allnutt said, "are all printed and ready to go."

For the full article see www.arrl.org/news/dayton-hamvention-expects-to-be-live-event-in-2022.

SKYWARN: DECEMBER 15, 2021

Jeri Lyn Rogge, NØJLR



While most Lancaster County residents were in the throes of last-minute Christmas gift and meal shopping, Amateur Radio operators prepped for a rare December SKYWARN callout. The day's forecast called for unseasonably warm temperatures, sustained winds of more than 40 mph, with the potential of gusts of up to 75 mph.

At 1:09 pm, Lancaster County ARES EC Ed Holloway, KØRPT, signaled the team and called "CQ" to activate all trained storm spotters who were ready to deploy. Our team monitored the progress of what was later confirmed as an F2 tornado with peak winds of 118 mph that traveled near northwest Lincoln (source and image: www.weather.gov/oax/dec1521).

Spotter triangulation methods by KØSHC, WØBCL, WUØQ, KTØK, and KBØRZP prompted county officials to sound the tornado sirens. That afternoon, the Lincoln Airport reported a wind gust of more than 90 miles per hour (source: www.1011now.com/2021/12/16/wild-weather-wednesday-wrap-up-record-breaking-weather-day/).

As Lincoln residents headed to the basement to the sound of storm sirens, our team reported "ground truth," which included refuting reports of tornadoes on the ground in southeast Lancaster County. SKYWARN was canceled at 4:22 pm that afternoon, and many Lincoln residents were left without power and a lot of storm damage cleanup.

Thank you to the following 30 Hams who answered the call and delivered reliable data to keep area agencies, such as Lincoln EOC, NEMA, and FEMA, informed: W3ALX, WØBCL, KAØBOJ, NØDDE, KDØDEU, NØDFI, KDØEFK, WØERT, NØGUB, KØJIA, KTØK, KYØK, KØKPH, KØNC, KØNEB, KDØONN, WUØQ, KDØRIY, KØRPT, KDØRTP, N7RVN, KBØRZP, KØSHC, KØSMM, KEØTAS, KØTIA, KEØUNL, N8VRX, NØWLX, KBØZCY, and KDØZNM.



MEALS ON WHEELS

Ed Holloway, KØRPT



During the winter months, Tabitha Meals on Wheels needs volunteers to ensure that hot lunches are delivered

to homebound Lincoln residents. If you're interested in joining an on-call list, send an email to k0rpt@arrl.net.

ARES MEMBERSHIP DETAILS

Ed Holloway, KØRPT

If you are interested in helping with ARES, please register at <https://neares.net/ares-membership>. If you have already registered, you may update your contact information here as well.

Be sure to send certificate copies for completed trainings, such as IS-100, 200, 300, 400, 700, 800, and any FEMA development training certificates to k0rpt@arrl.net.

SOCIAL MEDIA



LARC is on Facebook! Search for "Lincoln Amateur Radio Club" or navigate to fb.me/LARCLincoln.

We also have a "Lincoln Amateur Radio Club KØKKV" group on Facebook at bit.ly/LARCgroup.

ARRL RADIO SPORT

ARRL Contest Calendar

JANUARY

- ◆ 8–9 RTTY Roundup
- ◆ 15–17 January VHF Contest

FEBRUARY

- ◆ 8–12 School Club Roundup
- ◆ 20–21 International DX – CW

MARCH

- ◆ 6–7 International DX – Phone

NEWS UPDATES

Aaron Rogge, NØADR, LOG Editor

We are always looking for something new to share in the LOG. If you have a news update or know of an upcoming event that your fellow Hams may be interested in, let us know!

Send updates to log@k0kkv.org.

Note: The LOG editors reserve the right to accept, deny, and edit any submission as deemed appropriate.

QUIZ TIME ANSWERS

Quiz questions are on page 7.

- | | |
|------|------|
| 1. C | 4. B |
| 2. B | 5. C |
| 3. D | 6. D |

Complete question pool: <http://www.arrl.org/extra-question-pool>

LINCOLN AMATEUR RADIO CLUB

The Lincoln Amateur Radio Club, Inc. (LARC), is a nonprofit organization devoted to the promotion of Amateur Radio. The club sponsors activities and programs to promote growth in Amateur Radio, further the experience of those already licensed, and create international goodwill.

The Lincoln LOG is mailed monthly to all paid members of LARC and Lancaster County, Nebraska, Hams.

The LOG and other LARC information are available at k0kkv.org and facebook.com/LARClincoln and may be used freely. Permission is granted to other publications to reprint articles, provided that source credit, author, and previous print source appear in the reprint.

Lincoln Amateur Radio Club, Inc.
P.O. Box 5006
Lincoln, NE 68505

Those interested in paying their ARRL dues through LARC are encouraged to email treasurer@k0kkv.org for details.



Lincoln Amateur Radio Club Registration Form

Name: _____ Call Sign: _____

Address: _____

City: _____ State: _____ ZIP+4: _____

Phone: _____ Email Address: _____

License Class: Novice Tech General Advanced Extra

Memberships

LARC (\$15 Full, \$10 Associate*) Year: _____ \$ _____

LARC (\$10 first-time members — first year only) Year: _____ \$ _____

Lincoln Repeater Club (\$10 / year) Year: _____ \$ _____

Donations

General Fund Equipment Fund Activities Fund Other \$ _____

Enclose check payable to: Total Due: \$ _____

Lincoln Amateur Radio Club, Inc.
P.O. Box 5006, Lincoln, NE 68505-0006

* Associate Members must be family members residing at the same address as the Full Member

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