



APRIL MEETING

19:30, WEDNESDAY, APRIL 12

LI-COR, 4647 SUPERIOR STREET, LINCOLN, NEBRASKA

APRIL CLUB MEETING

JIM DAVIDSAVER, EMERGENCY MANAGEMENT DIRECTOR

Jim Davidsaver, Lancaster County Emergency Management Director, will talk about the EOC (Emergency Operation Center).

The EOC is designed to coordinate and manage the response and recovery operations during disasters and other declared emergencies.

The most common activation of the EOC is severe weather, so you don't want to miss this presentation!

—Ed Holloway, KØRPT

COMING EVENTS

April

Sa	04/01	14:30	Storm Spotter Training	Innovation Campus	2021 Transformation Dr
Th	04/06	18:30	VE Exams	Northside Café	2701 N 48th St
Sa	04/08	11:00	HPQRP Homebrewers	Bredeaux Pizza	1425 Silver St, Ashland
W	04/12	12:00	QCWA Luncheon	Slim Chickens	5805 S 85th St
W	04/12	19:30	LARC Meeting	LI-COR	4647 Superior St
W	04/19	19:00	LARC Board Meeting	Red Cross	220 Oakcreek Dr
Th	04/20	19:30	SATERN Meeting	Salvation Army	2625 Potter St
Tu	04/25	23:59	LOG Deadline	Email articles & ads to	log@k0kkv.org

MAY

M	05/01	19:00	LOG Folding	Red Cross	220 Oakcreek Dr
Th	05/04	18:30	VE Exams	Northside Café	2701 N 48th St
F	05/06		Spring Fling Bicycle Ride		Eagle/Louisville
Sa	05/07		Lincoln Marathon		Lincoln
W	05/10	12:00	QCWA Luncheon	Slim Chickens	5805 S 85th St
W	05/10	19:30	LARC Meeting	Northern Lighthouse Church	6131 N 14th St
Sa	05/13	11:00	HPQRP Homebrewers	Bredeaux Pizza	1425 Silver St, Ashland
W	05/17	19:00	LARC Board Meeting	Red Cross	220 Oakcreek Dr
Th	05/18	19:30	SATERN Meeting	Salvation Army	2625 Potter St
Tu	05/25	23:59	LOG Deadline	Email articles & ads to	log@k0kkv.org
Su	05/28		Memorial Lincoln Duathlon		Lincoln
M	05/30	19:00	LOG Folding	Red Cross	220 Oakcreek Dr

Lincoln Amateur Radio Club, Inc.

PO Box 5006

Lincoln, NE 68505

Club Repeater KØKKV 146.760 (-)
Packet APRS KØKKV 144.390
DX Packet Cluster telnet://cluster.k0gnd.net

LARC Web Site <http://k0kkv.org>
Facebook www.facebook.com/LARCLincoln

2017 BOARD OF DIRECTORS

President	Ed Holloway	KØRPT	402/326-1139	k0rpt@arrl.net
Vice President	Bryan Leavitt	WØBCL	402/310-1686	w0bcl@arrl.net
Secretary	Dale Douglas	KDØWVD	402/629-4543	kd0wvd@gmail.com
Treasurer	Marlene McLaughlin	KDØHYM		kd0hym@gmail.com
	Greg Brown	KTØK	402/937-3540	gwbrownx@inebraska.com
	Mike Arter	W9LG	402/770-6460	w9lg@yahoo.com
	Mike Lauver	KØLVR	402/580-4602	mlauver@neb.rr.com
	Mike Long	KØSHC	402/770-2427	k0shc13@yahoo.com
Executive Director and Club Station Trustee	Reynolds Davis	KØGND	402/488-3706	reynoldsdt@aol.com

2017 COMMITTEE CHAIRS

COMMITTEE	LIAISON	CHAIR/CO-CHAIR
Activities	KDØHYM	Bruce Wood, WAØRIM
Bylaws	KØRPT	Jeff Bennett, WØWKP
Christmas Party	KØRPT	Heather Chesnut, KDØBXA
Club Awards	KØRPT	Heather Chesnut, KDØBXA
Club Station	KØLVR	Bruce Steyer, KBØKA
Convention 3/11/2017	KDØHYM	Marlene McLaughlin, KDØHYM
Education	WØBCL	Aaron Rogge, NØADR Richard Mulder, ACØLN
Emergency Cord. ARRL	KØRPT	Ed Holloway, KØRPT
Estate Assistance	KTØK	Gordon Trout, WØKBS
Facebook	KDØWVD	Dale Douglas, KDØWVD
Field Day	KDØWVD	John Mardock, KRØP Mike Walsh, KBØQH, Larry Frisch, KDØRTK
LOG Editor	KDØWVD	Aaron Rogge, NØADR, Jeri Lyn Rogge NØJLR
Merchandise	W9LG	
Nets	WØBCL	Connie Zehr, NØGMA
Public Relations	KØRPT	Bob Mitchell, WBØRJJ
Public Service	KØSHC	Mike Long, KØSHC
QSL Cards	KTØK	Greg Brown, KTØK
Repeater	KØRPT	Ed Holloway, KØRPT
Transmitter Hunts	KØLVR	
Web Site	KØRPT	Aaron Rogge, NØADR
Equipment Inventory	W9LG	Larry Frisch, KDØRTK



PRESIDENT'S COLUMN



What a great turnout for the March club meeting. Ken Dewey has always been a great presenter and he didn't hold anything back this time. Many thanks to Ken for another great evening of information, laughs, and a few predictions. I look forward to Weatherfest on April 1!

Jim Davidsaver will be our guest for the April club meeting. Jim will present weather spotting from the EOC perspective. Come and get first hand information EOC is looking for when we go sit on the hill.

At the March club meeting, the Board presented two bylaw changes. Section 1 created a third classification of membership, which passed 64 to 3. Section 3 struck language requiring a Board nominee to be a licensed for a year before eligibility, which passed 51 to 16. Thank you for your support. I believe these changes are positive and will help secure the club's existence long into the future.



March club meeting with Ken Dewey

If you missed the convention, you missed history in the making! There were well over 400 attendees. This is a remarkable 50.18% increase over last year. Thank you to everyone who brought equipment and items for sale and to the staff of Lancaster Event Center, who were awesome to work with. Thank you, thank you to Marlene, KDØHYM, and her team for making it all happen! Well done, folks! Marlene accepted the invitation to chair the convention committee for 2018. I look forward to seeing it all again next year!

Public service is off and running with events on the calendar. Get with Mike, KØSHC, and let's have some fun making things happen. John, KRØP, and his Field Day committee have been meeting and we're set for another great event. I've heard there will be a fantastic GOTA station this year. Bring that person you've been mentoring and get them on the air.

I was asked to change the venue for club meetings in May, June, July, and August to allow for family events. Anybody who knows me knows that I am all about family and will do whatever it takes to make sure family events are respected. I have asked and retained space for our club meetings at Northern Lighthouse Church at 6131 N 14th St. This is the church that I go to and it is handicap accessible and has a large parking lot. We have all the needed technology for presentations and we'll have coffee at the back of the room. In September, we'll be back at LI-COR for the remainder of the year. Thank you, Jeff, WØWKP, for all you do for the club and huge thanks to LI-COR for allowing the club use of the space!

I look forward to seeing you all at the club meeting!

—Ed Holloway, KØRPT

REYNOLDS DAVIS RECOGNIZED BY ARRL



Reynolds Davis, KØGND, has been a Ham for over 55 years. Long active in emergency response services, Reynolds recently retired from the role of ARES Emergency Coordinator for Lancaster County, Nebraska, having been appointed to that position 43 years ago.

During his tenure, Reynolds created Lancaster County SKYWARN, implemented a volunteer certification program, and organized ARES response to many emergencies involving dangerous weather, including tornado storm watching, damage assessment, and Meals on Wheels deliveries during winter snow storms, as well as telephone outages. To accomplish this, he set up the first Amateur Radio station at the Lancaster County Emergency Operations Center, developed software to deploy and track volunteers, established a storm spotter activation system using subaudible tones on the Lincoln KØKKV two-meter repeater, and worked with the National Weather Service to provide notice to storm spotters via the NWS weather radio system.

Beyond Amateur Radio, the *Lincoln Journal Star* described Reynolds in a 2014 article: "American Red Cross volunteer since 1971, still active with first-aid efforts, volunteering at venues such as the Lied Center and Pershing Center; former Cornhusker chapter chairman for the March of Dimes; executive director of the Lincoln Amateur Radio Club and its 330 members; treasurer of WasteCap Nebraska, working with its sustainability efforts; vice chair of the Volunteer Organizations Active in Disaster (VOAD); longtime volunteer classroom instructor for Junior Achievement; and a leader with the Southeast Nebraska Medical Reserve Corps, serving as coordinator of a 10-county area in Southeast Nebraska, which supports the community's daily public health needs and responds to local emergencies in times of crisis."



In emergency management, in leading the way in teaching and recruiting new Hams to our ranks, and for his dedication to Amateur Radio, Reynolds is truly an outstanding member of our community.

— Art Zygielbaum, KØAIZ
ARRL Midwest Division Vice Director

LARC PROGRAMS

APRIL – JIM DAVIDSAVOR, EOC

MAY – AK-SAR-BEN RADIO CLUB
"HAM RADIO OVER WiFi"

JUNE – JOE EISENBERG, KØNEB

AUGUST – ED HOLLOWAY, KØRPT
"HISTORY OF LARC"

SEPTEMBER – GLENN JOHNSTON, WØGJ

RADIO SPORT

APRIL

- ◆ 16 Rookie Roundup – Phone

JUNE

- ◆ 10-12 June VHF
- ◆ 18 Kids Day
- ◆ 24-25 Field Day

JULY

- ◆ 8-9 IARU HF World Championship

—ARRL Contest Calendar

MARCH LOG ASSEMBLY CREW



Each month a great crew prepares the LOG for mailing to approximately 800 addresses. Thank you to NØADR, WØBCL, KCØDHM, KDØDIU, NØJLR, KBØKA, KDØPTF, KDØRIY, KØRPT, KDØRTK, NØVMT, and Emmett Boldt for your help prepping the March 2017 LOG!

—Aaron Rogge, NØADR

CLUB MEETING LOCATION

This month we will continue to meet at LI-COR but for the months of **May, June, July, and August**, will be at Northern Lighthouse Church. We will resume at LI-COR in September.

Northern Lighthouse Church
6131 N 14th St
Lincoln, NE 68521

There is plenty of parking and the building is handicap accessible.

—Ed Holloway, KØRPT

NIGHTLY NET UPDATE



Thank you to everyone who participates in each of the nets. The ARES net is held daily at 21:00 local time and Tech Talk is held Friday nights at 22:00.

Everyone is welcome.

ARES NET (CHECK-INS)

February: 695

2017 YTD: 1,565

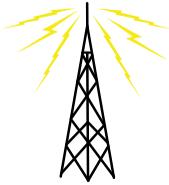
WEDNESDAY NIGHT NET CONTROLLER

Jared is doing a fabulous job, but at the end of May, he will be done with school and will be going back to Omaha. If someone is willing to take Wednesday nets starting the end of May, contact me at 402-202-2805 or humbee5@neb.rr.com.

—Connie Zehr, NØGMA

LINCOLN REPEATER CLUB

146.850 — KØLNE/R



2017 is going to be a great year to become a Lincoln Repeater Club member and to participate in the LRC Raffle. We are going to raffle off two radios this year. One will be a new BaoFeng UV-5R dual band handheld two-way radio (black), and the other will be a new VHF mobile radio. Raffle tickets are \$2.00 each or three for \$5.00. The drawing will be held this fall. Good luck!

Please consider becoming a member of the Lincoln Repeater Club and being a part of the 146.850 MHz (-) community repeater operations in the area. See Chris, KCØAOO, at one of the rear tables during the LARC Wednesday night meeting at LI-COR. Membership cost is only \$10.00/year.

We encourage you to use our repeater as much as you like. As always, it is an open repeater. If your part of the hobby would like to hold nets on the repeater, please contact Lonnie, WDØAOP (wd0aop@arrl.net), and we will get your net reserved, advertised, and on the air.

Lincoln Repeater Club
C/O WØCHV
6705 W Mill Rd
Raymond, NE 68428-4308

Thank you for your support. 73

—Lonnie Rech, WDØAOP

2016 HAM AWARDS

The winners of the 2016 Nebraska Ham Awards were announced at Hamfest:

LIFETIME ACHIEVEMENT

- ♦ Bill Mc Collum, KEØXQ
- ♦ Harold Kunkee, KØKTZ

NEBRASKA HAM OF THE YEAR

- ♦ James W. Reider, KØJWR

NEBRASKA YL HAM OF THE YEAR

- ♦ Deb Andriesson, KEØIHI

GWEN ANDERSON, KØGAA, MEMORIAL AWARD

- ♦ Fred Eriksen, KBØLF

—Matt Anderson, KAØBOJ
ARRL Nebrasak Section Manager

REVIEW TIME

Which of the following must a person have before they can be an administering VE for a Technician Class license examination?

- Notification to the FCC that you want to give an examination
- Receipt of a CSCE for General Class
- Possession of a properly obtained telegraphy license
- An FCC General Class or higher license and VEC accreditation

Answer on page 9.

NEXT TECHNICIAN CLASS – APRIL 18

Join us in room 130 at Union College's Krueger Center (approximately 50th and Bancroft) from 18:30-21:30 starting Tuesday, April 18, and continuing each Tuesday through May 23.

No book required and classes are free!

Richard Mulder, ACØLN, and Jeri Lyn Rogge, NØJLR, are the instructors.



—Aaron Rogge, NØADR

SOUTHEAST NEBRASKA AMATEUR RADIO CLUB



The annual spring meeting will be held Saturday, April 22 at Café Metro in Auburn (901 Central Avenue).

Check in begins at 09:30 with the meeting at 10:00 over breakfast. If you plan to attend, please email senebradioclub@gmail.com or call 402-310-5003 and leave a message so we know how many tables to reserve.

See you at the meeting!

—Chuck Bennett, KDØPTK

PUBLIC SERVICE

Happy spring, fellow Hams! I hope you had a great winter. With spring in the air, it is time for public service and we have some good events coming up soon.

First is helping with the Spring Fling bicycle ride Saturday, May 6. It all starts in Eagle, Nebraska, at 07:30 at the school, located on the east side of town. The Great Plains Bicycle Club is looking forward to us helping make their event safe and fun, and they provide brats and hotdogs with the fix'ins! I hope you will consider helping. Talk-in is on the K0KKV repeater.

The next event is Sunday, May 7, the Lincoln Marathon right here in good ole Lincoln, Nebraska! This is the 40th year of the marathon, so I hope many of you will consider helping out with this event. They really count on our participation, which helps make the event operate smoothly. 13,500 runners are expected to be on the course this year, so please sign up.

Public service helps us hone our skills to prepare for an emergency event, so please consider signing up for an event this year! It is a whole lot of fun!

I will have sign-up sheets at the club meeting and I am looking forward to seeing you then.

—Mike Long, KØSHC
Public Service Chair

P.S. Cornhusker State Games is just around the corner!

GEORGE JACOB DAVID, WØOHP/SK



George J. David, E.E., 102 years' young of Fort Collins, Colorado, passed away peacefully at home on February 26, 2017. George was born on October 7, 1914 in Lincoln, Nebraska, to George David, Sr., and Mollie (Fox) David. His sister, Shirley Mohr David of Omaha, Nebraska, preceded him in death.

George and the late Alberta Newell David married on October 14, 1940 and together they had three children, Terry Kugrens, Stephen David, and Bradley David, all from Colorado. George loved to dance. He met Nancy Lashbrook on the dance floor and they were married in December 2000.

George had a very interesting and productive life. He graduated from the University of Nebraska with an Electrical Engineering degree. He worked for Joseph Seagram's in the world's largest distillery as a power engineer. George left Seagram's to work for the war effort at Western Electric. Western Electric and Bell Labs had a contract with the U.S. military to build land and air based radar systems to assist the war effort in Europe. When the war was over, Bell Labs wanted George to work for them in New York. George and his wife, being Midwesterners, decided they had enough of the East and returned to Lincoln, Nebraska. It was here that he had a future with American Stores Lincoln Packing Company. George's new job was to rebuild the plant, which was a huge success. He ran it until 1980, when he retired at the age of 65.

George was a 50-year Mason and Amateur Radio operator. In past years, he was also a Shriner. He enjoyed his longevity by reading, working the stock market, and running his computers; this kept his mind sharp for his 102 years.

George is survived by his wife, Nancy and his three children, six grandchildren, and four great-grandchildren.

In his later years, his favorite place was at home, enjoying the fireplace. George was true to himself and lived his life with no regrets. With the help of Pathway's Hospice, he was able to live out his life at home until the end. In lieu of flowers, please consider making a contribution to Pathway's Hospice. 305 Carpenter Road, Fort Collins, Colorado 80525.

Memorial service and Masonic Rites were held at 13:00 on March 12 at the Masonic Temple, Fidelity Lodge #192, 225 W. Oak St., Fort Collins. Please visit www.goesfuneralcare.com to leave condolences and share memories.

—*The Coloradoan*, March 5, 2017

VE EXAM SESSIONS—DECEMBER



This month we had two exams sessions, our regular session at the Northside Café on Thursday, March 2 and the HamFest session on March 11. We had a total of fifteen candidates between the two sessions, of which eleven passed for a new or upgraded license.

TECHNICIAN

- ◆ Aiden Constable, KEØMPZ, Blue Rapids, KS
- ◆ Brandon Wright, KEØMKU, Kearney
- ◆ Garrett Hahn, KEØMKV, Columbus
- ◆ Jacob Jarecki, KEØMKW, Newman Grove
- ◆ Tyler Martin, KEØMKX, Lincoln

GENERAL

- ◆ Craig Barnett, NØZRY, Lincoln
- ◆ Randall Carlson, KØKRC, Lincoln
- ◆ Jon Oliver, KEØDVL, Weeping Water

EXTRA

- ◆ James Nelson, WDØDQL, Lincoln
- ◆ Matthew Deighton, KD7BBO, Auburn
- ◆ Michael Dark, KA5PNX, Eagle

Volunteer Examiners (VE's) who participated this month are ACØLD, KØKPH, KØKTZ, KØLVR, KØSIL, KØXU, KCØDHM, KCØPJR, KDØMNZ, KDØRIY, KDØRTK, KEØIHK, NØADR, NØJWS, NØLNK, NØSCE, and WØBCL.



Upcoming exams are April 6, May 4, and June 1 at the Northside Café. For testing details, please visit <http://k0kkv.org>.

—Chris Evens, KCØPJR

REVIEW TIME

Answer: D. An FCC General Class or higher license and VEC accreditation

FCC Part 97.509(b)(3)(i)

—Aaron Rogge, NØADR

RADIO HUMOR

You know you're a Ham if:

You ID every ten minutes during a regular conversation.

—KC9RXC

RADIO HUMOR

A Ham operator is operating Field Day alone at a deserted beach. He is taking a little break from the action, walking around on the beach, and notices an antique brass bottle mostly buried in the sand. He digs it out and discovers it's a genie bottle! He manages to get it open and a genie appears.

"Thank you for freeing me, O Master!" said the grateful genie. "I will grant you any one wish you want."

The Ham thinks about it and says, "OK, I got it. I live right now in a restrictive neighborhood. I would like to have a 500 foot tower with all sorts of antennas, despite the homeowners association."

The genie looks worried. "O Master! That's a big order. The power of these HOAs and their CC&Rs is most powerful! In fact, they are more powerful than even I, O Master! I would beg you to please choose something else for your wish."

The Ham says, "OK, let's do this." He goes over to his Ham station and pulls out his log books. "See this entry? This is a contact I once made with AC6V. I would sure like to get his QSL card after all this time."

The genie looks at the logbook. Then he says, "Now regarding that 500 foot antenna tower, do you want it galvanized or stainless steel?"

—AC6V

BEST CHOICE UPC LABELS



Please bring UPC labels from Best Choice products purchased at Russ's or Super Saver to club meetings.

STORM SPOTTER TRAINING

APRIL 1, 2017

Mark your calendar! Our annual storm spotter training will be at Innovation Campus on Saturday, April 1, as part of Ken Dewey's CPSWS (Central Plains Severe Weather Symposium). With a much larger venue for the event, there will be more than enough parking for all. Come early and check out the many exhibits, have lunch at the Hy-Vee cafeteria, sign in, and head to the auditorium by 12:30 for the first speaker. Training will be led by folks from the Valley office of the National Weather Service. Check www.weatherfest.unl.edu for more information.



State spotter certification will be offered for those who need it. If you passed the state spotter credentials in 2013 or before, you will need to re-certify. State certification is good for three years. In addition to attending the April 1 training, new and renewed spotters must complete two online courses and take the written exam in order to receive the state credentials.

Go to http://www.meted.ucar.edu/training_course.php?id=23. You will need to complete two modules and have the certificate for each module sent to k0rpt@arrl.net. Module titles: Role of SKYWARN® Spotters and SKYWARN® Spotter Convective Basics.

If you are unable to attend the NWS training for Lancaster County, you may qualify by attending NWS training in another county.

—Ed Holloway, KØRPT

ROOKIE ROUNDUP

WHEN: Sunday, April 16 from 1800 UTC through 2359 UTC, using SSB.

MISSION: To encourage newly-licensed operators ("Rookies") in North America (including territories and possessions) to operate on the HF bands and experience competitive Amateur Radio operating. Experienced operators ("Non-Rookies") are strongly encouraged to participate and help new operators—either on the air or in person.

OBJECTIVE: Rookies exchange information with as many other stations as possible on the 80, 40, 20, 15, and 10 meter HF bands.

WHO: You can be a Rookie if you were first licensed in 2017, 2016 or 2015—send the year you were first licensed in the exchange.

Starting in April, if you were licensed before 2015 you can also be a Rookie if you made your first Amateur Radio contact during 2017, 2016 or 2015 or if you haven't made any contacts on the contest mode (SSB, CW, or RTTY) before the Rookie Roundup contest, send the current year (2017) in your exchange—either of these reasons qualify you as a Rookie for just one year.

Rookies will attempt to make as many contacts as possible during this six-hour event. Rookies work everyone—and non-Rookies work only Rookies.

For full details and rules see <http://www.arrl.org/rookie-roundup>.

—ARRL

ARRL MAGAZINES

Did you know that the ARRL produces three magazines? I didn't until recently.

Most of us are aware of *QST*, the magazine you get with your ARRL membership. It provides a wonderful overview of what's happening in the world of Amateur Radio. Here are two more to consider:



QEX is a bimonthly magazine that focuses on experimenters.

- ◆ Provides a medium for the exchange of ideas and information among Amateur Radio experimenters
- ◆ Documents advanced technical work in the Amateur Radio field
- ◆ Supports efforts to advance the state of the Amateur Radio art.



There also is *NCJ*, the *National Contest Journal*. It is published bimonthly as well and focuses on the active world of competitive radio. It features articles by contestors and will

keep you up to date on the various contests along with providing hints on how to improve. If you are a contestor, or want to become a contestor, take a look.

Check them out!

- ◆ *QST*: <http://www.arrl.org/qst>
- ◆ *QEX*: <http://www.arrl.org/qex>
- ◆ *NCJ*: <http://www.arrl.org/ncj>

—Aaron Rogge, NØADR

WORLD OF DX

Antoine, 3D2AG, will once again be active as 3D2AG/P from Rotuma Island between March 25 and April 22, pending shipping schedule. Find him on 160 through 6 meters, including 60m, using CW, SSB, RTTY, and PSK31. He will run barefoot and entirely solar-powered. QSL via his home callsign direct only or PayPal (see QRZ.com). Also, watch QRZ.com for updates by Antoine.

In Uganda, Anton, ON6NL, is once again active as 5X8C from Entebbe. Listen for him on various HF bands. QSL via his home callsign, direct, by the bureau, LoTW, or ClubLog.

—Amateur Radio Newsline

2017 CORNHUSKER STATE GAMES

The 2017 Cornhusker State Games are scheduled for July 21–30.

I know the Cornhusker State Games seem far away, but planning is well under way. Right now, I need coordinators to help organize communications for the following activities: triathlon, cycle tour, net control, adventure race, mountain bike, ENERGY 5K, soccer, softball - slow pitch, and softball - fast pitch. We have also been asked to again manage water and lunch deliveries.

If you are interested / willing to help with coordination, please send me an email at n0adr@ajrogge.com or catch me at the club meeting. Together we can help make another successful Cornhusker State Games.

—Aaron Rogge, NØADR

2ND ANNUAL GREATER MIDWEST RADIO SHOW



Saturday, May 13, 2017, 08:00–13:00

Adams County Fairgrounds
947 S Baltimore Ave, Hastings, NE

Admission: at the door \$5.00. Admission includes 1 FREE door prize ticket.

Under 18 admitted free with parent or guardian (MUST have parent or guardian.)

- ◆ Antique radios
- ◆ Vintage electronics
- ◆ Ham Radio
- ◆ Electronics
- ◆ Hobby items
- ◆ Swapmeet and commercial vendors
- ◆ Demonstrations
- ◆ Severe weather spotter training session by NOAA
- ◆ FCC-approved Ham radio license testing
- ◆ And MORE!

Door prizes! Refreshments and lunch served onsite.

More information: greatermidwestradio.org

—Aaron Rogge, NØADR

2017 PUBLIC SERVICE CALENDAR

Month	Date	Event	Location
May	6	Spring Fling Bicycle Ride	Eagle/Louisville
	7	Lincoln Marathon	Lincoln
	28	Memorial Lincoln Duathlon	Lincoln
June	25	Trail Trek	Lincoln
July	21 – 23		
	29 & 30	Cornhusker State Games	Lincoln/Lancaster Cnty
August	3 – 12	Lancaster County Fair	Lincoln
	26	Mud Run	Lincoln
	27	Heat Stroke 100 Bicycle Ride	SAC Museum
	30	Market to Market Relay	Cass Cnty/Lancaster Cnty
September	9	MS Bike Ride	Lancaster Cnty
	17	Last Blast Y-Tri Triathlon	Branched Oak Lake
	30	Market to Market Relay	Cass Cnty/Lancaster Cnty
October	21	Oregon Trail Run	Hebron
	29	Good Life Halfsey	Lincoln



All dates are confirmed, so feel free to mark your calendar. Sign up sheets will be available at upcoming club meetings.

—Mike Long, KØSHC
Public Service Chair

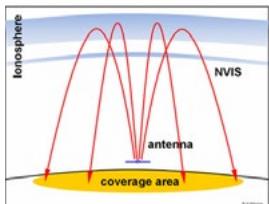


Make your voice heard!

Advertise here

Email log@k0kkv.org for details

NVIS RESEARCH PAPER AVAILABLE



A thorough and fully-annotated discussion of Near Vertical Incidence Skywave (NVIS) is available in the research paper, "Radio Communication via Near Vertical Incidence Skywave Propagation: An Overview," by Ben A. Witvliet, PE5B/5R8DS, and Rosa Ma Alsina-Pagès (<https://link.springer.com/article/10.1007/s11235-017-0287-2>).

First investigated in the 1920s, NVIS propagation was rediscovered during World War II as "an essential means to establish communications in large war zones such as the D-Day invasion in Normandy," the paper notes, adding that the U.S. Army subsequently sponsored a lot of NVIS field research, especially between 1966 and 1973. More recently, NVIS has become a popular means to enable close-in communication on Amateur Radio HF bands between 3 and 10 MHz. NVIS can be used for radio communication in a large area (200-kilometer radius) without any intermediate manmade infrastructure, and it has been found to be especially suited for disaster relief communication, among other applications, according to the paper.

"A comprehensive overview of NVIS research is given, covering propagation, antennas, diversity, modulation, and coding," the abstract explains. "Both the bigger picture and the important details are given, as well as the relation between them." As the paper describes it, in NVIS propagation, electromagnetic waves are sent nearly vertically toward the ionosphere, and, with appropriate frequency selection, these waves are reflected back to Earth.

"The great reflection height of 80 to 350 kilometers results in a large footprint and homogeneous field strength across that footprint," the paper says. "Due to the steep radiation angles large objects such as mountain slopes or high buildings cannot block the radio path."

As for NVIS antennas, the paper stipulates that important parameters are antenna diagram, polarization, and bandwidth. "As only high elevation angles contribute to NVIS propagation, optimizing the antenna diagram for these elevation angles will increase the effectively transmitted power and improve the signal-to-interference ratio at reception."

—ARRL

<http://www.arrl.org/news/nvis-research-paper-available>

CUBA INSTITUTES NEW AMATEUR RADIO REGULATIONS



Radio Amateurs in Cuba are scrutinizing and debating the details of new Amateur

Radio regulations for the island nation. The Cuban Ministry of Communications adopted the new regulatory scheme on February 28. International Amateur Radio Union Region 2 (IARU-R2) posted the new Amateur Radio Service regulations (in Spanish) as a PDF.

The detailed regulations governing Hams in Cuba comprise 17 chapters and 182 articles and are said to include some significant changes from the previous rules and regulations that affect authorized bands, license terms, on-the-air practices, and the importation of equipment, antennas, and accessories. The rules in Cuba require license applicants to be at least 18 years old "or authorized by parent or guardian" for prospective radio amateurs older than age 12. Those older than 15 must at least be in ninth grade.

Three license classes are available in Cuba: First Class licensees have CO-prefix call signs and may run up to 2,000 W on authorized bands; Second Class licensees have CM-prefix call signs and may run up to 100 W; Third Class licensees have CL-prefix call signs and may run up to 10 W. Upgrading from Second to First Class requires 3 years' experience in the lower license category, while upgrading from Third to Second Class requires 2 years' experience in the lower license category.

First and Second Class licensees must pass a

5 WPM Morse code test.

The Federation of Cuban Radio Amateurs (FRC) develops the questions for the written tests, which must have government agency approval before being administered. Having a license does not automatically give permission to build a transmitting station, which must have prior approval.

The new Cuban regulations stipulate that communications with Amateur Radio stations in other countries be "in clear language" and limited to messages of a technical nature that do not justify the use of public telecommunications. Messages of a technical nature should refer to the exchange of information regarding experiences or experiments carried out during radio communications, and the coordination of schedules. An Amateur Radio station in Cuba may not engage in international third-party communications.

Cuba has adopted an approach of listing permitted modes by band, specifying up to 31 emission designators for some bands. —Thanks to Southgate Amateur Radio News via Joel Carrazana, CO6JC, FRC Information System.

—ARRL

<http://www.arrl.org/news/cuba-institutes-new-amateur-radio-regulations>

HAVE A GREAT IDEA FOR LARC?

Have you brewed up a great idea for education, social outings, fundraisers, club meetings, or more? Email your ideas to log@k0kkv.org.

ABOUT THE 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, as well as furthering the experience of those already licensed, and to create international good will.

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

If your label says, "COMPLIMENTARY," please consider joining the club and supporting its activities. Even if you are not currently active, your contribution will help to ensure the future of Amateur Radio. Annual dues are only \$20. For your convenience, please join by completing and mailing in the form below or visit <http://k0kkv.org> and use PayPal.

The *LOG* solicits your input. If you have an idea for an article, wish to contribute an article or photo, or want to place an ad in the *LOG*, contact the editors at log@k0kkv.org. The deadline for each issue is generally the last Tuesday of the previous month.



The *LOG* and other Lincoln Amateur Radio Club information are available at <http://k0kkv.org> and at [facebook.com/LARClincoln](https://www.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 Registration Form

Personal Information

Name: _____ Call Sign: _____

Address: _____

City: _____ State: _____ Zip+4: _____

Phone: _____ Email Address: _____

License Class: Novice Tech General Advanced Extra

Membership Information

LARC (\$20 / Calendar Year: Jan - Dec) Year: _____

ARRL: National Association of Amateur Radio (\$49 / year)

New Renewal

Optional Donations

Equipment fund \$: _____

Social activities \$: _____

Make checks to: Lincoln Amateur Radio Club, Inc.

Lincoln Amateur Radio Club, Inc

PO Box 5006 • Lincoln NE 68505-0006

Administrative use only:

- Cash
- Credit Card
- Check
- Data Uploaded

v2016.11