



The LCARA Patch



10 METER ROUNDTABLE
WEDNESDAY NIGHT @ 2030 HRS
28.450 MHz

www.LCARA.ORG
<https://groups.io/g/lcarapatch>

LCARA TWO METER NET
THURSDAY EVENING @ 1900 HRS
147.210 PL 110.9



The *PATCH*

Published by the Lake County Amateur Radio Association
P.O. Box 868
Painesville, OH 44077-0868

The Patch Staff

Editor: KB8BKE
DX: AA8OY
History: KO8O
Sunshine: W8DMP

LCARA Board

Ed Kopcak KB8BKE President
Vacant Vice-President
Donna Wheeler W8DMP Secretary
Paul Wheeler W8PJW Treasurer
Joe Koskovics N8JKO Director at Large

Voice Repeaters N8BC

147.210 +.600 MHz -PL tone of 110.9 Hz
224.500 - 1.6MHz -PL tone of 141.3 Hz.
444.650 + 5.0MHz -PL tone of 131.8 Hz.
N8BC trustee, Bob Liddy

Standing Committees

ARES/Public Service	Mike Goffos	WB8ZGH
Contest	Bob Liddy	K8BL
DX	Jim Pyle	AA8OY
Field Day Chair	Jim Pyle	AA8OY
Program Director	Joe Koskovics	N8JKO
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History	Scott Farnham	KO8O
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Repeater	N8IJG - KB8BKE	
Sunshine	Donna Wheeler	W8DMP
Trustee, N8BC	Bob Liddy	K8BL
Web Master LCARA	Bill Wihebrink	N8IJG

Our next club Meeting: April 7th (Zoom)

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Message from the President

Greetings fellow travelers,

Spring is finally here and so beckons us to venture out from our winter dens.

We will be starting off our public service schedule for 2021 starting this month. On April 11th we will be providing communication support for the annual GCXC Drop Run which starts at the Concord Twp. City Center and finishes at Fairport Harbor Beach. The 24th is NVIS Day and we will be operating from the LCHS grounds and deploy our trailer for this yearly test of Near Vertical Incident Sky wave antenna designs which are useful in emergency operation and overall preparedness. The exercise runs from 10am until 4pm.

At April's club meeting will have a brief presentation from Tom Revolinsky (KE8HJL) about the Red Cross "Sound the Alarm" Program. This program offers households up to 3 FREE smoke detectors each. Tom is the Disaster Program Manager for the ARC Northern Ohio Region, and will have details about the program and fire safety in the home. Immediately following we will welcome back Axel Fisher (K8AXX) as he offers his expertise on the subject of how to install, set up and use FT-8, a computer program and increasingly popular HF digital operating mode. Hope to see you there.

As a reminder, the National Weather Service's Cleveland office has announced a schedule for Skywarn Spotter training online classes. It's nice to have a little understanding of what that big ugly cloud in the sky might mean to you and your plans for the day. More information can be found in this issue.

Finally, I'd like to wish everyone a Happy Easter and hope you get to spend time with loved ones and have a chance to relax and reconnect.

'73-Ed

Membership Meeting Minutes for March 2021

Board Members Present:

KB8BKE – Ed Kopcak, President W8DMP – Donna Wheeler, Secretary
W8PJW – Paul Wheeler, Treasurer N8JKO – Joe Koskovics, Director-at-Large

Attendees:

Ed – KB8BKE	Donna – W8DMP
Paul – W8PJW	Joe – N8JKO
Mike – WB8ZGH	Ron – NU8N
Jim – AA8OY	Cal – W8BZP
Larry – WB8PHI	Bob – K8QXO
Jeff – WA8SAJ	Bob – N8KBX
Dale – KG6WGO	Rick – W8QL
Paul - KA8VLA	Neal – NF1X
Paul - KE8PP	Bill – N8IJG
Don – WA8TWM	Axel – K8AXX
Sally – N1BCF	Cathie – AB8GV
Jim – KF8VX	Tom – KE8HJL
Bill – N8WCL	

Meeting Minutes:

- Meeting called to order by Ed (KB8BKE) at 7:30 p.m.
- This meeting took place as an online membership meeting using the Zoom platform.
- **President:** Ed (KB8BKE) welcomed presenter for this meeting Axel Fisser (K8AXX).

Presentation Highlights

- *Axel's presentation included valuable information on Lithium Batteries. We thank him for sharing his time and knowledge with us. Several members had questions for him throughout his presentation.*
- *The purpose of this presentation was to:*
 - *Learn from each other*
 - *Inspire critical thinking and ask questions*
 - *Help each other master the subject*

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- *Topics covered in tonight's detailed presentation include:*
 - *Introduction*
 - *Why Lithium Batteries*
 - *Types of Lithium Batteries*
 - *Assembling Lithium Batteries*
 - *Charging Lithium Batteries*
 - *Practical Applications for Ham Radio*
 - *Discussion*

End of Presentation

- Additions and/or Corrections to the Patch: There are no additions/corrections to the Patch.
- **Treasurer Report:** Paul (W8PJW) reported:
 - Provided a Treasurer's report. All good.
- **Secretary Report:** Donna (W8DMP) reported:
 - Created/Submitted LCARA Membership Meeting Minutes and LCARA Board Meeting minutes.
 - Sent out several membership renewal confirmation letters.
 -
 - Two new members joined the club in February. Please welcome Jeff Meyer (K4DKW) and Tom Wright (KE8PSH) both to LCARA.
- **Director-at-Large Report:** Joe (N8JKO) reported:
 - Planning to send out reminder to Bob Heil (K9EID) for the LCARA May Membership Meeting Presentation.
 - Always looking for presenters for future meetings. Suggestions are welcome. Asked if group members would be interested in seeing a presentation on building cases/cabinetry for go box portable radio stations, or station upgrades.
 -
 - Planning to update the group with additional information related to the 2021 LCARA Club Picnic in next month's LCARA Patch newsletter.
- **Radio Officer Report:** Ed (KB8BKE) reported:
 - LCARA repeaters are working well.

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- Planning to do more work on repeater as soon as he can gain access to LCARA sites. Sites are still restricted at this time due to Corona virus.
- **DX:** Jim (AA8OY) reported:
 - LU/Z – Antarctica - A new op has arrived at the LU1ZG Belgrano II Club Station, LU4DXU. Armando is allowed to use the club station and will be on from there in the ARRL DX SSB Contest this weekend.
 - 4S – Sri Lanka – 4S6RSP has been de-coded by stations along the east coast of North America on 18.100 (FT8) starting just prior to 1500Z for about a half an hour.
 - CE – Chile - This coming weekend in the ARRL DX SSB, CE2LR, Mathias, will be operating on 15 meters.
 - JW – Svalbard - LB5SH, Stian, plans to be QRV in the CQ WPX SSB Contest from the JW5E club station in Longyearbyen, Svalbard.
 - PJ2 – Curacao - N1ZZ, AF4Z, WB5ZGA and K4JC will be on Curacao from March 1 through 9 with the emphasis on the ARRL DX SSB Contest as PJ2T. Outside the contest they will be QRV on the HF bands on SSB, CW, FT8 and RTTY, using PJ2/home calls.
 - ZD8 – Ascension Island - During the ARRL DX SSB Contest, March 6-7, ZD8HZ, Tevfik, will be QRV.
 - FM – Martinique - Romanic, W7ROM is QRV as FM4WDM. Activity is on 15 meters using FT8.
 - J6 - St. Lucia -. Operators K9HZ, W0CN and WA4PGM will be QRV as J68HZ, J68CN, and J68PG, respectively, from March 2 to 11. This includes being active as J68HZ as a Multi/Single/High Power entry in the upcoming ARRL International SSB DX contest.
 - KH9 – Wake Island - Thomas, NL7RR is QRV as KH9/NL7RR until April 2. Activity is in his spare time on 40 and 20 meters using SSB.
 - Don't forget about the upcoming ARRL International SSB DX contest starting 0000UTC March 6 and ending 2359UTC March 7. W and VE stations work only DX and DX work only W/VE. Exchange for W/VE is signal report and state or province. DX sends signal report and power.
- **Events Public Service:** Mike (WB8ZGH) reported:
 - There is not a lot going on public service-wise in March due to the Pandemic.
 - The Drop Run is shortened to 10 miles starting out in Concord at the fire station. Not sure how we will support that event yet.

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- NVIS Day is scheduled to take place on April 24, 2021.
- 10 Mile Drop Run is scheduled to take place April 11, 2021.
- **Lake County History Center:** Bob (K8QXO) reported:
 - The Lake County History Center is scheduled for NVIS Day and ARRL Field Day.
- **Nets**
 - Joe (N8JKO) reported: Monday nets are going well. Joe encourages all to check in.
 - Ed (KB8BKE) reported: 2-Meter Net is going well. We are always looking for more participation. Check in if you can.
 - Mike (WB8ZGH) reported: 10-Meter Net is going well. Join us at 28.450 Wednesday nights. Feel free to check in.
- **Sunshine:** Donna (W8DMP) reported:
 - We learned of Tom Anderson's (N8XCG)'s passing on January 30, 2021. The club extends our deepest sympathy to his family at this difficult time.

Meeting adjourned at: 8:56 p.m.

Donna (W8DMP)

###

Sunshine

by Donna Wheeler W8DMP

Nothing additional to report

###

Backscatter for April 2021

by: *Scott Farnham KO8O*

LCARA Historian



65 Years Ago: The Admiral Corporation introduces a radio that runs on either batteries or solar cells. The small (3x9x10 inch, 5.25 pounds) \$60 radio used six transistors instead of vacuum tubes. Six D cells would give 700 to 1000 hours of use. The solar cells cost an additional \$185.

57 Years Ago: The first picture phone call is made between New York and California. A combination of a telephone and a small matching TV, it allowed users to see fuzzy images of each other. Prices ranged from \$16 to \$27 for a three minute call. Unsurprisingly, it never became popular.

40 Years Ago: The April meeting will be held at the National Weather Service facilities at Cleveland Hopkins Airport. The bus leaves from the Lake County Federal S&L at 7PM, at a cost of \$1.00.

35 Years Ago: The Club is scheduled to tour the VOA station at Bethany Ohio on the Friday of the Dayton Hamvention. Highlights are a 50 acre antenna farm and half-million watt transmitters.

The solar flux breaks 100! Bill, N8BC reports the solar flux exceeded 100 on February 5th, and stayed there through the 7th. This is the first time the solar flux has broken 100 in the last year.

Version 3 software has been loaded into the repeater's RC-850 controller. A list of it's enhanced vocabulary now fills more than a page in The Patch. Instructions are given for the Mailbox, a feature that allows a user to leave one of ten predefined messages for another user.

30 Years Ago: The Willoughby input is now up. The Concord remote receiver is complete, and should be installed as soon as the landlord gives the go-ahead.

The 80 meter Novice band is shifted down 25 kHz to 3675 kHz - 3725 kHz, effective March 16 at 12:01 am local time.

25 Years Ago: Dee Logan, W1HEO reports that sunspot cycle 23 should start soon. One solar cycle ends and the new one begins when the number of sunspots associated with each cycle are

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equal in number, and there are now three cycle 23 sunspots vs 15 cycle 22 sunspots. Note for sunspot aficionados; the polarization of sunspots reverses with each cycle.

Bob Liddy, K8BL, in his column QRM ES QRN ES QSB DE K8BL lists a number of Q-Signal license plates seen recently in Lake County. Spotted are QRX723, QSL822 and QSX109, not to mention QSY227 who turns off the road in front of Bob. QRX723 then blocks the roadway while dropping off a passenger, and shortly thereafter QRQ572 flies past Bob on the freeway.

20 Years Ago: As Hamfest morning dawns, it's windy with the sky threatening snow. The temperature slowly rises to 25 degrees, but Spring fever keeps the crowd at near record levels.

Horace Lid, N8LID, reports on a newly developed speech pacifier to eliminate the superfluous verbiage in ham radio. Going between the mike and the radio, "home QTH" becomes "home", and the many extra uses of "there" are eliminated. "How you doing there?" becomes "how you doin". It works on HF too, with "I've been on this frequency for 16 hours" working down to "Jest fired up the rig". DX cops "wrong VFO" rants are switched into a dummy load (named after one of our members, he claims). It includes a whine filter, which reduces whining over 80 "desibells."

15 Years Ago: The club meeting is held at the EOC, and includes a tour of the building.

Hmmmm. According to the scientists at the National Center for Atmospheric Research, the coming sunspot Cycle 24 will be 30-50% more intense than the last one, and be exceeded only by the record Cycle 19 in 1960.

Note from 15 years later: Sunspot Cycle 24 was a bust. Maximum levels were half of cycle 23, and was the smallest cycle since Cycle 14 in 1906.

10 Years Ago: Prior club member Dee, W1HEO operates from P4, Aruba, while on a "semi-holiday outing":

5 Years Ago: Rarely heard Heard Island is heard as a group of hams activates VK0EK for three weeks. This sub-Antarctic island group, an Australian protectorate, is the fifth most needed DXCC entity.

~Scott, KO8O

###

DX Alert for April 2021

by: Jim Pyle AA8OY



THE MALDIVES – 8Q- 8Q7MS, operator RM2D/SM6LRR, Mats, will be there until April 10, CW with “some SSB,” 40-15 meters.

SINGAPORE – 9V - DXers from New England and on down the US East Coast and into the Caribbean have been finding 9V1YC, James, on 80 meters FT8 the last few days between 2300 and 2330Z.

MARIANA ISLANDS – KH0 - Last week, KH0/KC0W, Tom, was active on 80m FT8 working stations across the US between 1115 and 1200z

BRAZIL – PY - In celebration of the 61st anniversary of Brasilia, the capital of Brazil, special event station ZW61DF will be QRV by members of the LABRE-DF (PT2AAA). Activity will be on CW, SSB and FT8 from April 1-30.

SAINT MARTIN – FS - Janusz, SP9FIH will be QRV as TO1K from Saint Martin until April 5.

WALES – GW - John, MW1CFN will be QRV as GB1004FTS from Anglesey Island, IOTA EU-005, from March 25 to April 8 to celebrate the 100th anniversary of the Royal Air Force's Number 4 Flying Training School that opened on 1 April 1921. Activity will be on the HF bands, including 6 and 2 meters, using SSB and various digital modes.

MALI - TZ - Jeff, TZ4AM has been active using CW on 40 meters around 0145z.

PITCAIRN ISLAND - VP6 - Meralda, VP6MW has been active on 20 meters SSB around 1520z and 17 meters SSB around 1640z.

KOSOVO - Z6 - Driton, Z61DX has been QRV on 20 meters using CW around 1500z.

Happy hunting!

~Jim, AA8OY

(Thanks to ARRL DX and Weekly DX)

###

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Contests: (from the Ohio Section Journal)

Apr. 1	SARL 80m QSO Party	http://bit.ly/H0IqQf
Apr. 3-4	EA RTTY Contest	https://tinyurl.com/yxukvmbz
Apr. 3-4	Louisiana QSO Party	http://laqp.org
Apr. 3-4	Mississippi QSO Party	www.arlmiss.org
Apr. 3-4	SP DX Contest	https://spdxcontest.pzk.org.pl/2020
Apr. 4	DARC Easter Contest	http://bit.ly/3bOk9pd
Apr. 4	North American SSB Sprint	https://ssbsprint.com/rules
Apr. 7	RSGB FT4 Contest Series	http://bit.ly/3mCNXXH
Apr. 7	UKEICC 80m Contests SSB	https://bit.ly/2SDPqQQ
Apr.10-11	FT8 DX Contest 2021	https://europeanft8club.wordpress.com
Apr. 10-11	Georgia QSO Party	https://gaqsoparty.com
Apr. 10-11	JIDX CW Contest	www.jidx.org
Apr. 10-11	Nebraska QSO Party	www.nebraskaqsoparty.org

Apr. 10-11	New Mexico QSO Party	www.newmexicoqsoparty.org/wp
Apr. 10-11	North Dakota QSO Party	http://ndarrlsec.com
Apr. 10-11	OK-OM DX SSB Contest	http://bit.ly/3ioS3Cl
Apr. 10-11	Yuri Gagarin International DX Contest	http://gc.qst.ru/en/section/32
Apr. 11	RSGB RoLo SSB Contest	www.rsgbcc.org/hf/rules/2021/rolo.shtml
Apr. 12	RSGB 80m Club Championship, CW	http://bit.ly/3avHbk3
Apr. 17	ES Open HF Championship	https://esopen.eu/
Apr. 17-18	Holyland DX Contest	www.iarc.org/iarc/#HolylandContest
Apr. 17-18	CQ Manchester Mineira DX Contest	www.cqmmdx.com/rules
Apr. 17-18	Michigan QSO Party	www.miqp.org/index.html
Apr. 17-18	Ontario QSO Party	www.va3cco.com/oqp/rules.htm
Apr. 17-18	Texas State Parks on the Air	www.tspota.org
Apr. 17-18	Worked All Provinces of China DX Contest	https://bit.ly/3sDGs72
Apr. 17-18	YU DX Contest	http://yudx.yu1srs.org.rs
Apr. 19	ARRL Rookie Roundup, SSB	www.arrl.org/rookie-roundup
Apr. 21	RSGB 80m Club Championship, SSB	http://bit.ly/3avHbk3
Apr. 29	RSGB 80m Club Championship, Data	http://bit.ly/3avHbk3
Apr. 24-25	10-10 Spring Digital Contest	http://bit.ly/1FrFeBc
Apr. 24-25	Florida QSO Party	www.floridaqsoparty.org
Apr. 24-25	Helvetia Contest	www.uska.ch
Apr. 24-25	SP DX RTTY Contest	www.pkrvg.org/strona,spdxrttyen.html
Apr. 25	BARTG Sprint75 Contest	http://bartg.org.uk/wp/contests
Apr. 28	UKEICC 80m Contests CW	https://bit.ly/2SDPqQQ

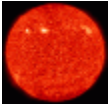
Special Event Stations:

- **04/10/2021 | The Annual Nancy Kott Memorial KN0WCW Event**
Apr 10-Apr 11, 0001Z-2359Z, KN0WCW, Leonardo, NJ. FISTS North America. 10.058 7.058 10.118 3.558. Certificate. cody codianni, 413 Martin Court, Leonardo, NJ 07737. The Annual Nancy Kott Memorial KN0WCW Event! Nancy met Fists' founder George, G3ZQS (SK) in a happenstance QSO in 1988, befriended him and shortly became the head of what is now The Americas Chapter of Fists. From then till her passing on 2 March of 2014, she worked tirelessly to promote our club and Morse Code, showing kindness to all and exemplifying our mottos of "courtesy at all times" and "accuracy transcends speed." She is deeply missed by all, but not forgotten. Please help us honor Nancy's work and dedication from 00:01 UTC April 10 2021 to 23:59 UTC April 11 2021. fistsna.org/operating.html
- **04/10/2021 | Celebration of the 155th Anniversary of Auburn University**
Apr 10-Apr 11, 1200Z-2359Z, W4E, Auburn University, AL. Auburn University. 7.060 7.074 and 7.047.5 14.074 and 14.080 7.070. QSL. Stew Schneller, 1869 Hillton Court, Auburn, AL 36830-2693. www.qrz.com/db/k4jop
- **04/10/2021 | Spring has Sprung**
Apr 10, 1700Z-2100Z, W4D, Kodak, TN. Sevier County Emergency Radio Service. 14.280 +/- .020 USB 7.200 +/- .020 LSB 14.070 +/- .020 PSK31 7.070 +/- .020 PSK31 CW only on 7.060 +/- .010. QSL. Thomas P. Baxter W9TPB, 2054 James Rd., Sevierville, TN 37876. For additional information, please go to our website www.eventqsl.webs.com
- **04/10/2021 | USS Midway Museum Ship Special Event: Doolittle Raid**
Apr 10, 1600Z-2300Z, NI6IW, San Diego, CA. USS Midway (CV-41) Museum Ship. 7.250 14.320 14.070 (PSK31) DSTAR via PapaSystem repeaters. QSL. USS Midway CV-41 COMEDTRA NI6IW, 910 N Harbor Dr, San Diego, CA 92101. Please include SASE. www.qrz.com/db/ni6iw
- **04/17/2021 | Celebrating the Louisiana Purchase**
Apr 17-Apr 24, 0000Z-2359Z, W5L, West Monroe, LA. NorthEast Louisiana Amateur Radio Club. 14.250 21.250 7.250 3.850. QSL. Jim Ragsdale, W5LA, 111 Eagle Lake Drive, West Monroe, LA 71291. <https://www.qrz.com/db/W5L>
- **04/17/2021 | Texas State Parks On the Air (TSPOTA)**
Apr 17-Apr 19, 1400Z-0200Z, K5LRK, The Colony, TX. Lake Area Amateur Radio Club. CW Phone VHF. QSL. See website, for, Information. Times are daily. K5LRK on as a special event station. Contest: Activate as many Texas parks as possible. www.k5lrk.com or www.tspota.org
- **04/18/2021 | World Amateur Radio Day**
Apr 18-Apr 19, 1300Z-0400Z, W7W, Rochester, NY. W2JLD/Special event coordinator. Echolink *ROC-HAM* CONFERENCE 531091 Allstar 2585, 47620, 53130. QSL. John Derycke, W2JLD, 85 Amherst St #2, Rochester, NY 14607. This will be our 6th annual WORLD AMATEUR RADIO DAY celebration on the VOIP Echolink system We have a 16 hr net with net controllers from all over the world. A special event qsl card will be available Join us again for one of the LARGEST special events on Echolink@ 9AM EST TILL 12 MINDNIGHT EST we will have Allstar, DMR as well. w2jld2@gmail.com

###

ARRL News:

☐ [03/26/2021 | The K7RA Solar Update](#)



Tad Cook, K7RA, Seattle, reports: On March 21 and 22 two new sunspot groups, 2811 and 2812, appeared. [Read More](#)

☐ [03/23/2021 | Cooperative Effort Under Way to Resolve Potential 70-Centimeter Interference Issue](#)



ARRL, the FCC, and the US Department of Defense are cooperating in an effort to eliminate the possibility of amateur radio interference on 70 centimeters to critical systems at White Sands Missile Range. [Read More](#)

###

Upcoming Hamfests

Massillon ARC Spring Tailgate Fest to be at the MAPS Air Museum held. Entrance at 5383 Massillon Road just inside the Stark/Summit County line. Date is Saturday, April 17 from 9 [a.m.to](#) 4 p.m. Cost is \$5 per vehicle. (for use of the facility) No advance registration necessary. Bring your own tables. (no large trailers) No charge for visitors.

06/05/2021 - [FCARC](#)

[SummerFest](#)

Location: Wauseon, OH

Sponsor: Fulton County Amateur Radio Club

Website: <http://k8bxq.org/hamfest>

[Learn More](#)

07/10/2021 - [Mansfield Mid-Summer Trunkfest](#)

Location: Mansfield, OH

Sponsor: InterCity Amateur Radio Club

Website: <http://iarc.club>

[Learn More](#)

###

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"The first wireless operators were landline telegraphers who left their offices to go to sea or to man the coastal stations. They brought with them their language and much of the tradition of their older profession. In those early days, every station occupied the whole spectrum with its broad spark signal.

Government stations, ships, coastal stations and the increasingly numerous amateur operators all competed for time and signal supremacy in each other's receivers. Many of the amateur stations were very powerful. Two amateurs, working each other across town, could effectively jam all the other operations in the area.

Frustrated commercial operators would refer to the ham radio interference by calling them "hams." Amateurs, possibly unfamiliar with the real meaning of the term, picked it up and applied it to themselves. As the years advanced, the original meaning has completely disappeared."

###

QRZ Radio Trivia Quiz:

How many FCC call districts, and how many total states, border the Mississippi River?

- A: 3 call districts and 6 states
- B: 4 call districts and 10 states
- C: 5 call districts and 9 states
- D: 7 call districts and 7 states

The "Esaki Diode," named after its inventor, is more commonly known as a _____?

- A: Gunn Diode
- B: PIN Diode
- C: Tunnel Diode
- D: IMPATT Diode

Answers on page 23

###



HAM EXAMS IN LAKE COUNTY EVERY OTHER MONTH

The Lake County Amateur Radio Association will be holding its **2021** Amateur Radio license exams, **usually** at the **Kirtland Library**, 9267 Chillicothe Road, on the following dates:

Saturday, February 6 *

Saturday, August 7

Saturday, April 3 *

Saturday, October 2

Saturday, June 5

Saturday, December 4

This bi-monthly schedule is the first Saturday of every even-numbered month (e.g., February being the second month, etc.). Tests are **usually** held at the Kirtland Library, 9267 Chillicothe Road. It is 1.7 miles south of I-90 on Route 306 (Chillicothe Rd). The library is on the left, just beyond the Marathon gas station.

*** NOTE THAT DUE TO COVID, the February and April tests will be at the Lake County Historical Society, 415 Riverside Drive, Painesville**

This is on the northeast corner of Riverside and Route 84, just west of Riverside High School.

The tests will start at **12 noon**. Please arrive a few minutes earlier.

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To register, you will need a NCVET 605 Form, which will be available at the test. If you would like to complete one ahead of time, be sure it is the Sept 2017 version or later. You can find it by Googling "NCVEC quick-form 605" and clicking on the url for a pdf of the form. The FCC now requests you provide a FRN, although your Social Security Number still works, at least for now. If you are new to ham radio and don't have a FRN, Google "New FRN" and follow the apps.fcc.gov link.

Be sure to bring a **copy of your license to the exam**. The cost is \$15.00, and if you wish to pay by check, it should be made out to the ARRL/VEC. Identification with your picture is also necessary, such as a driver's license. To confirm the location, or if you have any questions, please contact Scott Farnham, KO8O, at (440)256-0320, or scottfarnham@roadrunner.com



###

3rd Tuesday Breakfast Group 2021



Mark your calendars!

The next meeting of the Tuesday Morning Breakfast Group is **April 20th**, at the Perkins Family Restaurant, located at 700 Mentor Avenue in Painesville. Attendees begin to gather around 8:00am Breakfast orders being taken around 8:30am. This group averages 15-20 people from all around the area. Club membership is not a requirement to attend. Meet other Hams, talk over the news of the day and maybe find a buyer for your spare equipment. Bring your significant other, or a friend, to breakfast. It is a fun gathering.

Due to COVID restrictions, facial covering is required. Seating with the group is limited to 10. Overflow guests will be seated within general restaurant seating..



LCARA Board Meeting

Board Meeting



The LCARA Board currently meets virtually. We will resume in person meetings as soon as it is deemed safe to do so.

Board meetings are usually held at the Tri-Point Medical Center - Physicians Pavilion, lower level in Rm.1002, every 2nd Wednesday.

To find Rm. 1002 using the pavilion entrance, simply continue down the hallway into the hospital and past the food court. You may also enter via the hospital main entrance and take the elevator to the ground floor. The room is located just to the right of the main elevators.

All members are welcome.



April 2021

Sun.	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.
				1 Dist. 10 Simplex Net 7:00pm 2 Mtr. Net 7:00pm Maundy Thursday	2 Good Friday	3 Holy Saturday
4 Easter Sunday	5 ARES Net 7:30pm	6	7 LCARA Mtg. 7:30pm	8 2 Mtr. Net 7:00pm Winlink Thursday	9	10
11 GCXC Drop Run	12 ARES Net 7:30pm	13	14 LCARA Board Mtg. 7:00pm 10 Mtr. Net 8:30pm	15 2 Mtr. Net 7:00pm	16	17
18	19 ARES Net 7:30pm	20 3 RD Tuesday Breakfast	21 10 Mtr. Net 8:30pm	22 2 Mtr. Net 7:00pm	23	24 NVIS Day
25	26 ARES Net 7:30pm	27	28 10 Mtr. Net 8:30pm	29	30	

Public Service / ARES Events in April

4/3	Pancake Breakfast	LCHS	10:00 – 13:00
4/11	10 mile Drop-Run	Concord to Fairport	06:30 - 14:30
4/24	NVIS Day	LCHS	10:00 - 14:00

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Skywarn Weather Spotter Training Reminder!

The Cleveland NWS office has posted their upcoming virtual spotter training on their website (https://www.weather.gov/cle/SKYWARN_schedule). You can then register for a class if you are interested. Talks are also often posted on NWS offices Facebook/Twitter pages as well.

In addition to spotter training, there is also an upcoming virtual CoCoRaHS training on Tuesday March 9th at 6:30pm. If you would like a refresher on snowfall measurements or have other observing questions, this training is a great opportunity to review all of these aspects. Also, if you know someone who isn't currently a CoCoRaHS observer, but they are interested in learning more, please feel free to share the upcoming training session. For more info and registration, you can go to:

<https://www.weather.gov/media/iln/Volunteer/cocorahs.pdf>

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Our Weekly Nets

Lake County ARES Net

The ARES Net is held **weekly on Mondays at 7:30 pm on 147.210/R – 147.255/R**. This directed net is open to all licensed amateur radio operators. You do not need to belong to ARES to participate. This net is provided for operators to verify the proper operation of their stations equipment and capabilities, should they be called upon in the event of an emergency. Volunteer to be Net Control or Alternate Net Control. Prior experience is not necessary. Training will be provided. Everyone is welcome.

2 Meter Net

The 2 Meter Net runs **weekly on Thursdays at 7:00 pm on 147.210/R**. This is an informal net. Participant discussions vary on a range of subjects for the good of the group. It's a great time to ask questions, especially for new operators. List your items related to ham radio that you want to sell or swap and mention any sunshine reports you have to share. We also present the latest weekly edition of the ARRL Audio News. We are always looking for alternate net control operators.

10 Meter Roundtable

The 10 meter Roundtable meets **weekly on Wednesdays at 8:30 pm on 28.450 MHz +/-**. This is an informal roundtable where the group chats about anything that comes to mind and rag chew about any topic or events of the day. You don't need to be a LCARA member, just have at least a Technician license and some 10 meter gear. It's an opportunity to re-connect with friends or make some new ones. Anyone can start it off so don't be shy.

Other Weekly Nets

Monday

06:00-21:00 – BRRO Packet Net – Packet BBS: AB8M@AB8M.#CLE.OH.USA.NOAM or Winlink:AB8M@winlink.org

9:00 am. – Trivia Net – 146.940 (pl 110.9)

7:30 pm. – Lake County ARES Training Net – 147.210 (pl 110.9) – (b/u 147.255)

8:00 pm. – Geauga Emergency Amateur Radio Service Training Net – (check in on 146.940/R - followed by 147.435 simplex)

Tuesday

9:00 am. – Trivia Net – 146.940 (pl 110.9)

7:00 pm – ARES Ohio District Emergency Preparedness Training Net (**voice**) (Spring/Summer/Fall)
3.902 MHz (+/-)

7:30 pm. – Swap-N-Shop – 147.015 (pl 110.9)

The *PATCH*, Published by the Lake County Amateur Radio Association

7:45 pm – ARES Ohio District Emergency Preparedness Training Net (**data**) – 3584.500 KHz.
1500 Hz waterfall-**USB** – Olivia 8-500

9:30 pm. – Tri-County Traffic Training Net – 147.015 (pl 110.9)

Wednesday

9:00 am. – Trivia Net – 146.940 (pl 110.9) –

8:00 pm. – Quarter Century Wireless Association Net – 146.850 (pl 110.9)

8:30 pm. – Lake Co. ARA 10 Meter Round-Table Net – 28.450 MHz (+/-)

Thursday

9:00 am. – Trivia Net – 146.940 (pl 110.9)

7:00 pm. – Lake Co. ARA 2 Meter Net – 147.210 (pl 110.9)

7:00 pm. – ARES Ohio District 10 Training Net – (**first Thursdays**) – 147.015/R - followed by 146.435 simplex

8:00 pm. – Ashtabula Radio Club 2 Meter Net – 146.715 (pl 141.3) – (Echolink node- N8CT/L)

8:00 pm. – Lake Erie ARA 2 Meter Net – 146.760 (pl 110.9) – (back/up 146.880 – pl 110.9)

8:00 pm. – Portage County Amateur Radio Society 2 Meter Net – 146.895 (pl 118.8 – Streetsboro input) (Echolink - use- K8BF-L node #508081)

Friday

9:00 am. – Trivia Net – 146.940 (pl 110.9)

9:30 pm. – Tri-County Traffic Training Net – 147.015 (pl 110.9)

Saturday

9:00 am. – Trivia Net – 146.940 (pl 110.9)

2:00 pm -. Swan Tech Net – 7.235 MHz

3:30 pm. – Kenwood Hybrid Tech Net – 7.235 MHz

Sunday

8:00 am – DX 60 Net – 3.880 MHz – **AM mode**

9:00 am. – Trivia Net – 146.940 (pl 110.9)

3:00 pm – ARES Ohio District Emergency Preparedness Training Net – 3584.5 MHz-**USB** (+1500 Hz waterfall) (Olivia 8-500)

4:00 pm. – Drake Tech Net – 7.238 MHz

9:30 pm. – Tri-County Traffic Training Net – 147.015 (pl 110.9)

Great Lakes Area Winlink Net Started

A "Great Lakes Winlink Net" has been started to promote the use of Winlink and training on the various facets of the hybrid amateur radio data/internet system. The net is open primarily to those states that border any of the Great Lakes: Minnesota, Wisconsin, Illinois, Indiana, Michigan, Ohio, Pennsylvania, and New York, and the Canadian province of Ontario. However, radio amateurs wishing to check in from other states or provinces anywhere are welcomed to participate. This net is modeled on the [Wisconsin ARES Winlink net](#).

The net check-in process is as follows: Send either a basic, plain text message, or use any of the forms templates on the Winlink Express platform available that will allow you to include the following line of text in the body of the message or in an appropriate part on the form you choose to send: FIRST NAME, CALLSIGN, CITY, COUNTY, STATE, COUNTRY. For example: RYAN, KB8RCR, REMUS, MECOSTA, MICHIGAN, USA

The net started on Wednesday, March 10, and each week on Wednesdays, amateurs may send their messages or forms any time during the day using Winlink in any mode available, RF or via Telnet. Send your message to KB8RCR as the recipient on Winlink. - *Ryan Lughermo, KB8RCR, ARRL Assistant Section Emergency Coordinator for Data Management/Special Projects, Michigan Section; and Official Relay Station*

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Sell, Seek or Swap

Equipment for Sale: by Evan Liechty, W8LSQ (ELIECHTY@windstream.net)

Icom 718, like new, original box, will demo	\$450.00
Kenwood TS950 SD 150 watts, internal power supply, dual receivers, auto antenna tuner, all of the filters, like new condition, will demo	\$475.00
Yaesu FT901 DE, 180 watts, comes with Turner desk mike with Heil HC 5 cartridge, like new, will demo	

Mike, KD8JDL has donated 100's of radio tubes from his father's store. If members are in need contact Ed, KB8BKE. No charge.

Check the LCARA website Swap/Sell/Trade page for more equipment available.

###

How many FCC call districts, and how many total states, border the Mississippi River?

- A: 3 call districts and 6 states
- B: 4 call districts and 10 states (Correct Answer)**
- C: 5 call districts and 9 states
- D: 7 call districts and 7 states

The "Esaki Diode," named after its inventor, is more commonly known as a _____?

- A: Gunn Diode
- B: PIN Diode
- C: Tunnel Diode (Correct Answer)**
- D: IMPATT Diode

The Amateurs Code

By Paul M. Segal, W9EEA (1928)

The Radio Amateur is:

CONSIDERATE..... Never knowingly operate in such a way as to lessen the pleasure of others.

LOYAL..... Offering loyalty, encouragement and support to other amateurs, local clubs and the American Radio Relay League, through which Amateur Radio in the United States is represented nationally and internationally.

PROGRESSIVE..... With knowledge abreast of science, a well built and efficient station and operation beyond reproach.

FRIENDLY..... With slow and patient operation when requested, friendly advice and counsel to the beginner, kindly assistance, co-operation and consideration for the interests of others. These are the hallmarks of the amateur spirit.

BALANCED..... Radio is an avocation, never interfering with duties owed to family, job, school or community.

PATRIOTIC..... With station and skill always ready for service to country and community.

LCARA was organized for the purpose of furthering Amateur Radio by increasing the technical knowledge and operating proficiency of radio amateurs through continuing education, public service and acting as a vehicle of communication by, between and with the members of the association. LCARA is an incorporated association chartered under the laws of the State of Ohio and is an exempt organization under section 501(c)(3) of the Internal Revenue Code. Contributions to LCARA are fully deductible from Federal Income Tax. Regular and Senior Dues are \$20.00 per year, Students \$10.00. Items may be reprinted by other non-profit publications without prior permission providing credit is given to the original source and The LCARA Patch. Articles from members are welcome.

To receive the Patch via email in PDF format, send an e-mail to: <https://www.lcara.org/contact-us/>

The Lake County Amateur Radio Association

Serving Lake County Ohio since 1978