



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
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.
(Repeater & N8BC trustee, Bob Liddy, K8BL)

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
LCHS Liaison	Bob Mekinda	K8QXO
History	Scott Farnham	KO8O
Publicity	Vance Roth	KA8YHZ
Repeater	N8IJG - KB8BKE	
Sunshine	Donna Wheeler	W8DMP
Trustee, N8BC	Bob Liddy	K8BL
Web Master LCARA	Bill Wihebrink	N8IJG

Our next club Meeting: March 3rd (Zoom)

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Message from the President

Greetings fellow travelers,

Our guest presenter for March will be Axel Fisher (K8AXX). He will be telling us all about Lithium batteries, how they are designed, how to make a storage device specific to your needs and best practices for use and maintenance.

Daylight Saving Time begins March 14th, and spring starts March 20th.

Severe Weather Awareness Week is March 21st thru March 27th.

The **Statewide Tornado Drill** will be held at 9:50am on March 24th. The sirens in Lake County WILL NOT be activated for this event. They are tested quarterly and otherwise only used for actual emergencies.

The National Weather Service's Cleveland office has announced that they will not be holding in person Skywarn Spotter training this spring and instead will offer online classes only. More information can be found posted in this issue.

Please welcome our two newest members, Jeffrey (K4DKW) and Tom (KE8PSH). We hope to see them both at our next meeting.

Finally, thank you to all who have renewed their membership for 2021. Your continuing support of our club is truly appreciated. For those who have not, a gentle reminder to please take a moment and do so. Include the form below with your payment to help us keep our records up to date. https://www.lcara.org/lcara/docs/LCARA_MemApp_r12_20.pdf

'73

Membership Meeting Minutes for February 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
Lou – K8LAD	Bob – K8QXO
Larry – WB8PHI	Bob – W2THU
Tom – KD8SJG	Bob – N8KBX
Tom – N8UAZ	Jeff – WA8SAJ
Brad – N8GLS	Dale – KG6WGO
Ron – KC8BTN	Rick – W8QL
Paul - KA8VLA	Neal – NF1X
Paul - KE8PP	

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 Jeff Covelli (WA8SAJ). Jeff's presentation included valuable information on Battery Powered Portable Power Generators.

Presentation Highlights

Jeff's presentation included valuable detailed information on Battery Powered Portable Power Generators. His presentation was extremely interesting. Several members of the group had questions and comments for him. We thank him for sharing his time and expertise with us.

Topics covered in tonight's presentation include:

- *History of Generators*
- *Gas Powered Generators*
- *Battery Powered Generators (Lithium Ion)*
- *Advantages of using Battery Powered Generators over Gas Powered Generators*
 - *Consider when power is out, most gas stations are not powered up to distribute gas.*
 - *If using propane make sure you have plenty to run your large generator.*
 - *Natural gas is dependable with some exceptions in some cities.*
 - *Batteries are quiet, can be charged by "solar", wind, and other means.*
- *Instructions/Procedures on to safely use Battery Powered Generators*
- *Comparison Chart of Generators detailing watt hours and how much power it will deliver, along with life cycles.*
- *Transfer Switches to get power from the generator to the house.*
- *How to charge Battery Powered Generators.*
- *Provided a detailed demonstration to the group of the EGO generator and charger he uses to power his home when needed. His demonstration included a generator*

demo, charging demo, and a Bluetooth app. demo. The app provided detail related to total power and battery condition/firmware.

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.
 - Received 12 membership renewals and 1 donation.
 - No outstanding bills.

- **Secretary Report:** Donna (W8DMP) reported:
 - Created/Submitted LCARA Membership Meeting Minutes and LCARA Board Meeting minutes for the month of February.

 - Sent out several membership renewal confirmation letters.

- **Director-at-Large Report:** Joe (N8JKO) reported:
 - Ed (KB8BKE) booked presenters for the March and April Membership Meetings.
 - Bob Heil (K9EID) will present to LCARA at the May Membership Meeting
 - The topic for the June Membership Meeting will be Field Day.
 - Looking for presenters for the July and August Membership Meetings.
 - No additional information on the picnic. We are booked provided there are no issues/restrictions with the Covid.

- **Radio Officer Report:** Ed (KB8BKE) reported:
 - Time working correctly on the repeater now.
 - Planning to do more work on repeater as soon as he can gain access to LCARA sites.

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- **DX:** Jim (AA8OY) reported:
 - C9 – Mozambique - C91BVA by CS7AMN, will be on the air starting February 18 on SSB and digital modes for several months from there.
 - EA – Spain - EA3EYO, Josep, plans to be active as EH3ANT during the 2021 Antarctic Activity Week, from February 20-28.
 - PJ4 – Bonaire - PE0SSB, Henk, is QRV in his spare time as PJ4/PE0SSB.
 - YI – Iraq - IU5WHS, Giorgio, continues his peacekeeping mission activity as YI9WS until March.
 - 3DA0 –Kingdom of Eswatini - Hans, 3DA0AQ has been active on 20 meters using CW around 2035z
 - T5 – Somalia - Ali, 6O1OO has been QRV on 40 meters using FT8 around 1340 and 2230z.
- **Field Day:** Jim (AA8OY) reported:
 - Bob (K8QXO) secured the date at the History Center as long as there are no Covid restrictions.
 - Sunday in June has two tentative dates one is Field Day weekend. Nothing confirmed yet.
- **Events Public Service:** Mike (WB8ZGH) reported:
 - There is not a lot going on public service-wise in February due to the Pandemic.
 - The Drop Run is scheduled for April. Runners will do it regardless. May not bus people up to the sites.
 - There are a few events possibly scheduled at Garfield in August and September.
 - Mardi Gras is cancelled.
- **Lake County History Center:** Bob (K8QXO) reported:
 - Scheduled: June: LCARA Field Day

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- Scheduled: June: Pancake Event
 - Scheduled: July: Family Fun Day is scheduled for July 10, 2021
 - Scheduled: September: Clambake is scheduled for September 25, 2021
 - Scheduled: July: Christmas in July 22, 23 and 24
 - TBD: Home For the Holiday's Event
- **Nets**
 - Joe (N8JKO) reported: Monday nets are going well. Really appreciate everyone who checks in. Encourages all to check in. VHF 210 and 255 will be used for the second Monday of the month.
 - Ed (KB8BKE) reported: 2-Meter Net is going well. 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. Attendance increasing as we are confined to our shacks. Feel free to join in.
 - **Sunshine:** Donna (W8DMP) reported:
 - We learned of Bob's (K8QXO)'s unexpected passing of his father-in-law in January. The club extends our deepest sympathy to his family at this difficult time.
 - Tom's (KD8SJG)'s wife is recovering from a recent surgery. The club extends its wishes to her for a speedy recovery.

Meeting adjourned at: 9:05 p.m.

Donna (W8DMP)

###

Sunshine

by *Donna Wheeler W8DMP*

Nothing new to report

###

Backscatter for March 2021

by: *Scott Farnham KO8O*

LCARA Historian



145 Years Ago: Alexander Graham Bell made the first telephone call. His assistant, Thomas Watson, located in an adjoining room in Boston, heard Bell's voice over the experimental device say "Mr. Watson, come here. I want you." This first successful experiment was recorded in the March 10 entry of his lab notebook. Later that day, Bell speculated that "the day is coming when telegraph (phone) wires will be laid ... to houses just like water and gas – and friends converse with each other without leaving home."

40 Years Ago: With the number of .21 "kerchunks" increasing, Radio Officer Rusty tracks the tones heard when the repeater is brought up. Traced to a commercial user, their faulty radio is shown to mix the receiver oscillator in the transmitter PA, causing an output on 147.81. The tone heard on .21 is the tone burst used to open the commercial user's mobile units.

35 Years Ago: At 11:47 am on Friday January 21st, an earthquake centered north of Chardon rocks northeast Ohio at 5.0 on the Richter scale. Within minutes, .21 is bustling with activity, and WB8ZGM assumes net control while WA8HAR contacts the EOC director to see if assistance is necessary. The telephone exchange is overloaded with calls, making amateur radio the most reliable mode of communication. Perry power plant is evacuated as a precaution, but little damage is reported other than broken windows and fallen ceiling tiles.

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In a memorable fox hunt, the fox hides only 200 yards from the starting point; none-the-less, the first hunter in (NO8M) requires 18 minutes. Lets see, that's 11 yards per minute ... the last hunter (anonymous) requires 54 minutes, for a record .13 mph.

30 Years Ago: Effective on Valentine's Day, Technician Class is split into two. Existing Tech's become Tech Plus, and a no-code Tech class is created.

Postal rates are increased to 29 cents. International mail of a half ounce goes from 45 cents to 50 cents. Even the lowly postcard QSL goes from 15 to 19 cents.

25 Years Ago: Romeo Stepanenko is disqualified from participation in the DXCC program. QSL cards from his bogus North Korea (P5) operation (actually in Vladivostok by a few feet) will not count.

Following Pratas Island last month, Scarborough Reef (BS7) is added to the DXCC countries list. The ARRL DX Advisory Committee voted 11-3, with one abstention, approving the new country.

20 Years Ago: The ARRL QSL Bureau increases it's fees for outgoing cards to \$4.00 per ½ pound. The fee for 10 cards or less remains unchanged at \$1.00

The Patch reports the club dinner at "Potpourri" proved to be a fun and unusual setting for "twenty-six" LCARA members and guests". Now, that's a party !!

15 Years Ago: Club minutes show the February meeting having 27 attendees, with two 1st time guests, Brad, KC8ZMZ and Rick, N8BY.

10 Years Ago: Mike KD8JUF reminded everyone about our first Saturday breakfast at Denny's restaurant in Willoughby.

5 Years Ago: Scott Yonally, N8SY's March presentation to LCARA covers electrical safety and an update on upcoming ARES requirements.

~Scott, KO8O

###

DX Alert for March 2021

by: Jim Pyle AA8OY



9A - Croatia - Members of the Croatian Flora Fauna ARC are QRV with special event call 9A10FF during all of 2021 to celebrate the club's 10th anniversary.

9J -Zambia - Brad, 9J2RS is currently QRV on 20, 17 and 15 meters.

C9 – Mozambique - Bruno, CS7AMN is QRV as C91BVA from Maputo. Activity is on the HF bands using SSB and various digital modes.

TY - Benin – Johannes, ZS6JSI is QRV as ZS6JSI/TY until June 2021. Activity is mobile on 80, 40 and 20 meters using SSB and FT8.

ZF – Cayman Islands - CAYMAN ISLANDS, ZF - Bruce, K0BJ will be QRV as ZF2BJ from Savannah, Grand Cayman, IOTA NA016, until March 5. Activity will be on the HF bands with a focus on the newer bands and CW.

VK9C – Cocos Keeling - Ten members of the Northern Corridor Radio Group are planning an activation of Cocos Keeling Islands - VK9C between March 16th and 23rd 2021. The callsign VK9CE has been issued for the DXpedition.

J6 – St. Lucia - With the ARRL DX CW making the bands active the last two days, we look ahead to the ARRL DX SSB March 6-7. J68HZ will be a multi-single by J68HZ/K9HZ, WA4PGM and W0CN.

JD1/M – Minami Torishima - JG8NQJ, Take, will go back to Minami Torishima on either March 10th or 17th. He will be there for “about 3 months”, Take expects to begin operations “about two weeks after arrival”, as JG8NQJ/JD1. Activity is expected on 40 and 30 Meters CW.

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PJ2 – Curacao - N1ZZ, Dan; AF4Z, Don; WB5ZGA, Walter; and K4JC, Vince; will operate PJ2T in the ARRL DX SSB Contest, March 6-7. Between March 1 and 5 they will also be QRV as PJ2/home call on 1.8 through 28 MHz on SSB, CW and possibly FT8.

VP8 – Falkland Islands – After several years of being QRT VP8AWU, Neil, has been showing up over the last week or so on 40 meters SSB. Listen for him between 7.156 and 7.165 in the 2330 to 0300Z time period.

XU – Cambodia - XU7AKU by JA1DFK, Tad, is active, usually CW with wire antennas up 25 meters and an Outback 2000 80-6M mobile-type antenna.

Z8 – South Sudan - Z81B is again on the air, with IZ0EGB, Massimo, operating. He is mostly on 20 SSB.

Mark your calendars for the ARRL DX SSB contest March 6-7, 2021.

Contest Objective: To encourage W/VE stations to expand knowledge of DX propagation on the HF and MF bands, improve operating skills, and improve station capability by creating a competition in which DX stations may only contact W/VE stations. Use only the 160, 80, 40, 20, 15, and 10 meter bands to work as many DX stations in as many DXCC entities as possible.

Happy hunting!

~Jim, AA8OY

(Thanks to ARRL DX and Weekly DX)

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Contests (from Ohio Section Journal)

Feb. 28- Mar.1	North Carolina QSO Party	http://ncqsoparty.org/rules/
Mar. 1	RSGB 80m Club Championship, Data	http://bit.ly/3avHbk3
Mar. 2	AGCW YL-CW QSO Party	http://bit.ly/3plBhpN
Mar. 3	UKEICC 80m Contests SSB	https://bit.ly/2SDPqQQ
Mar. 6-14	Novice Rig Round-Up	www.novicerigroundup.org
Mar. 6-7	ARRL SSB DX Contest	www.arrl.org/arrl-dx
Mar. 6-7	Open Ukraine RTTY Championship	http://krs.ho.ua/openrtty
Mar. 7	SARL YL Sprint	http://bit.ly/H0lqQf
Mar. 7	UBA Spring Contest 80m CW	http://bit.ly/2KKAtb9
Mar. 10	RSGB 80m Club Championship, CW	http://bit.ly/3avHbk3
Mar. 13	AGCW QRP Contest	http://bit.ly/2KKp3rY
Mar. 13	YB DX RTTY Contest	https://rtty.ybdxcontest.com
Mar. 13-14	Idaho QSO Party	www.pocatelloarc.org/idahogsoparty
Mar. 13-14	Oklahoma QSO Party	http://k5cm.com/okqp.htm
Mar. 13-14	QCWA QSO Party	www.qcwa.org/qcwa.php
Mar. 13-14	North American RTTY Sprint	http://ncjweb.com/north-american-sprint
Mar. 13-14	RSGB Commonwealth CW Contest	http://bit.ly/2KxebOr
Mar. 13-14	South America 10 Meter Contest	www.sa10m.com.ar/index.html
Mar. 13-14	Stew Perry Topband Challenge	www.kkn.net/stew
Mar. 14	FIRAC HF Contest	www.firac.de/html/contest.html
Mar. 14-15	Wisconsin QSO Party	www.warac.org/wqp/wqp.htm
Mar. 15	RSGB FT4 Contest Series	http://bit.ly/3mCNXXH
Mar. 20-21	Virginia QSO Party	https://bit.ly/2Khd2ul
Mar. 20-21	Russian DX Contest	www.rdx.org/asp/pages/rulesg.asp
Mar. 20-22	BARTG HF RTTY Contest	http://bartg.org.uk/wp/contests
Mar. 21	UBA Spring Contest 80m SSB	http://bit.ly/2KKAtb9
Mar. 25	RSGB 80m Club Championship, SSB	http://bit.ly/3avHbk3
Mar. 27	FOC QSO Party	www.g4foc.org/qsoparty
Mar. 27-28	CQWW WPX SSB Contest	www.cqwp.com
Mar. 31	UKEICC 80m Contests CW	https://bit.ly/2SDPqQQ

Special Events

- **3/1/2021 | Battleship Texas Birthday**

Mar 11-Mar 14, 0000Z-0000Z, W5T, Cleburne, TX. Club KC5NX.

14.255 14.045 7.240 7.235 . QSL. Club KC5NX, 9200 Summit Ct

W , Cleburne, TX 76033-8212. Club KC5NX back on the air for

the celebration of the 107th birthday of the Battleship TEXAS.

jay.n.violet@gmail.com or check here to find us:

<https://www.dxwatch.com/dxsd1/dxsd1.php?f=0&c=w5t&t=dx>

<https://www.qrz.com/db/kc5nx>

- **03/13/2021 | USS Midway Museum Ship Special Event:
Launching of USS Midway**

Mar 13, 1700Z-2359Z, NI6IW, San Diego, CA. USS Midway (CV-

41) Museum Ship. 7.250 14.320 14.070 (PSK31) DSTAR vis

PapaSystem repeaters. QSL. USS Midway CV-41 COMEDTRA

NI6IW, 910 N Harbor Drive, San Diego, CA 92101. SASE

please. www.qrz.com/db/ni6iw

- **03/14/2021 | PI Day - David Sarnoff Radio Club,
Princeton, NJ**

Mar 14, 0000Z-2359Z, N2RE, Princeton, NJ. David Sarnoff Radio

Club. 14.250 14.050 7.200 7.050. QSL. Bob Uhrik, 104 Knoll

Way, Rocky Hill, NJ 08553. Famous Princetonian Albert Einstein

was born on PI Day. n2re.org

###

ARRL News

02/26/2021 | [Video Documents Removal, Preservation of 250 kW Voice of America Transmitter](#)

A video presents the story of how a 250-kW VOA transmitter in California became a museum feature in New York. [Read More](#)

02/26/2021 | [The K7RA Solar Update](#)

Tad Cook, K7RA, Seattle, reports: Sunspots have returned, and solar activity increased on every day over the reporting week. [Read More](#)

02/26/2021 | [Spring Red Cross Emergency Communications Drill Set](#)

The spring 2021 Red Cross Nationwide Emergency Communications Winlink Drill will be held on May 8. [Read More](#)

02/17/2021 | [ARRL Board Considers Plan to Cover New \\$35 FCC Fee for Some Young Applicants](#)

The ARRL Board of Directors considered a motion to offer a new service that would pay the new but not-yet-implemented \$35 FCC application fee for a limited number of new radio amateurs younger than age 18. [Read More](#)

02/16/2021 | [ARES Volunteers Reported Responding to Severe Weather](#)

Weather gone wild might be an apt description of the conditions in many parts of the US. [Read More](#)

###

Upcoming Hamfests

04/25/2021 - [Athens Hamfest](#)

Canceled

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](#)

07/18/2021 – [Van Wert Hamfest](#)

Location: Van Wert, OH
Sponsor: Van Wert Amateur Radio Club
Website: <http://W8FY.ORG>
[Learn More](#)

08/07/2021 - [DX Engineering Hamfest & Great Lakes Division Convention](#)

Location: Tallmadge, OH
Sponsor: DX Engineering
Website: <http://dxengineering.com>
[Learn More](#)

###

“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:

In what year, did Marconi start working on his wireless idea?

- A: 1896
- B: 1894
- C: 1890
- D: 1901

The wavelength for a frequency of 25 MHz is:

- A: 15 meters
- B: 32 meters
- C: 4 meters
- D: 12 meters

Answers on page 24

###



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 NCVEC 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 **March 16th**, 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 near the main elevators.

All members are welcome.



Since 1978

March 2021

Sun.	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.
	1 ARES Net 7:30pm	2	3 LCARA Mtg. 7:30pm	4 Dist. 10 Simplex Net 7:00pm 2 Mtr. Net 7:00pm	5	6
7	8 ARES Net 7:30pm	9	10 LCARA Board Mtg. 7:pm 10 Mtr. Net 8:30pm	11 2 Mtr. Net 7:00pm	12	13
14	15 ARES Net 7:30pm	16 3 rd Tuesday Breakfast	17 10 Mtr. Net 8:30pm St. Patrick's Day	18 2 Mtr. Net 7:00pm	19	20 Spring Begins
21 Daylight Savings Time Begins	22 Weather Awareness Week ARES Net 7:30pm	23	24 Statewide Tornado Drill 9:50am 10 Mtr. Net 8:30pm	25 2 Mtr. Net 7:00pm	26	27
28 Palm Sunday	29 ARES Net 7:30pm	30	31 10 Mtr. Net 8:30pm			

Upcoming Events

4/11	10 mile Drop-Run	Concord/Fairport	06:30-14:30
4/24	NVIS Day	LCHS	10:00-22:00
6/6	Hill-Yeah half marathon	Penitentiary Glen	06:30-15:00
6/20	Pancakes-4-Pops	LCHS	09:00-15:00
6/25	Field Day Set-Up	LCHS	14:00-18:00
6/26-27	Field Day	LCHS	14:00-14:00
6/27	Sunday-in-June Bike Ride	Burton	05:30-15:00

###

Skywarn Weather Spotter Training

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>

###

LCARA Weekly Nets

Lake County ARES Net

The ARES Net is held **weekly on Mondays at 7:30 pm on the 147.210 repeater**. This net is open to all licensed operators; you do not need to be an ARES or club member to participate. This net is provided for operators to verify the proper operation of their equipment and verify their stations capabilities in the event of an emergency. Here is your perfect chance to be Net Control or Alternate Net Control. Step forward, no experience is necessary, everyone will help you.

LCARA 2 Meter Net

The 2 Meter Net runs **weekly on Thursdays at 7:00 pm on the 147.210 repeater**. This is an informal net where the group can discuss any subject for the good of the group, great time to ask those questions, especially from the new operators. List your items related to ham radio that you want to sell or swap and any sunshine announcements you care to share. Listen to the latest edition of the ARRL Audio News and much more. We are always looking for additional net control operators Please check in.

LCARA 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 can chat about anything that comes to mind and even correct some of the world's problems. You don't need to be a LCARA member, just have at least a Tech ticket and some 10 meter gear. There is a good chance to connect with old friends and maybe make some new ones. This is a "Round Table" net, so anyone can start it off on 10 meters. Any questions please contact Mike, WB8ZGH.

Other Weekly Nets

Monday

06:00-21:00 – BRRO Packet Net – Packet BBS: AB8M@AB8M.#CLE.OH.U.S.A.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 – no pl)

8:00 pm. – Geauga Emergency Amateur Radio Service Training Net – (146.940 (pl 110.9) – (followed by 147.435 simplex)

Tuesday

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

7:15 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)

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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 Thursday only**) – 147.015 (pl110.9) then 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)

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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.

In what year, did Marconi start working on his wireless idea?

A: 1896

B: **1894 - Correct Answer**

C: 1890

D: 1901

The wavelength for a frequency of 25 MHz is:

A: 15 meters

B: 32 meters

C: 4 meters

D: **12 meters – Correct Answer**

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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