



The LCARA Patch



10 METER ROUNDTABLE
WEDNESDAY @ 20:30 HRS
28.450 MHz

www.lcara.org
<https://groups.io/g/lcarapatch>
<https://www.facebook.com/groups/LCARAofOhio/>

LCARA TWO METER NET
THURSDAY @ 19:00 HRS
147.210/R - PL 110.9



Board Members

President: Ed Kopcak KB8BKE
Vice President: Tom Revolinsky KE8HJL
Secretary: Tom Revolinsky KE8HJL
Treasurer: Ed Kopcak KB8BKE
Director-at-Large: Joe Koskovics N8JKO

Patch Staff

Editor: Ed KB8BKE
DX: Jim AA80Y
History: Scott KO8O
Sunshine: Bob K8QXO

Standing Committees

ARES/Public Service	Mike Goffos	WB8ZGH
ARRL /OH Gov. Liaison	Bob Winston	W2THU
Contest	Bob Liddy	K8BL
DX	Jim Pyle	AA80Y
Field Day Chair	Jim Pyle	AA80Y
History	Scott Farnham	KO8O
LCHS Liaison	Bob Mekinda	K8QXO
N8BC Trustee	Bob Liddy	K8BL
Planning	Nate	W1OLE
Program Director	Joe Koskovics	N8JKO
Publicity	Bob Mekinda	K8QXO
Repeater	N8IJG - KB8BKE	
Sunshine	Bob Mekinda	K8QXO
Web Master LCARA	Bill Wihebrink	N8IJG

***Our next club Meeting: January 3rd, 2024
@ the UH Tri-Point Physicians Pavilion
Lower Level entrance
Meeting Rm. #2***

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Message from the President

Greetings fellow travelers,

This edition of The *Patch* marks the beginning of our 46th year of continuous publication. We hope that you continue to find it relevant and useful. Our regular contributors work diligently to provide you with timely and accurate information related to our club and our hobby, and we encourage everyone to consider submitting something. It can be an article, photos or simply items of interest and appropriate to the group.

Our **next club meeting** will be held on January 3rd, **at UH Tri-Point Physicians Pavilion**. Enter via the doors off the north (lower) parking lot, and proceed down the hallway to meeting room #2. Doors will be open at 6:30pm and the meeting starts at 7:30pm. For those unable to attend in person, the meeting will also be available online via Zoom. Should travel become ill advised due to bad weather or road conditions in general this winter, meetings will be conducted online only. We will notify the group as early as possible on meeting nights when any such changes are warranted. Keep an eye on your email for updates.

LCARA membership renewals are due. (The grace period ends on March 31st, 2024). As voted last year, the dues amounts for 2024 have been increased to \$30 for single and \$45 for family memberships. Forms to update your contact information are available for download on our website at: www.lcara.org, under the "Membership" tab. We've added an online renewal form and a "Pay by Credit Card" option. Note that payments by credit card do incur a processing fee and service charge. These fees are included in the amounts listed on the checkout form. Payments can also be made in person at any meeting, or by check via USPS.

For those about to renew your ARRL membership, LCARA is eligible to receive a \$5 commission check for each renewal (\$15 for new ARRL members). In order for us to receive the rebate, a separate form is to be included when you mail off your renewal and payment, a link to the form is available here:

<https://www.arrl.org/files/file/Clubs/2023%20Club%20Commission%20Reconciliation%20Form.pdf>

You can also contact me or any board member to get a pre-filled form.

On behalf of the board, I'd like to wish you all the best for 2024.

Happy New Year!

Stay safe and be well.

'73

-Ed

Membership Meeting Minutes

Membership Meeting Minutes for 12-6-2023

Board Members Present:

KB8BKE – Ed Kopcak, President / Treasurer
KE8HJL – Tom Revolinsky, Vice President / Secretary
N8JKO – Joe Koscovics, Member at Large

Attendees:

Ed KB8BKE	Tom KE8HJL
Joe N8JKO	Jim AA8OY
Larry WB8PHI	Bill N8WCL
Steven KD8RFJ	Ron NU8N
Bob W2THU	Bill N8IJG
Marty KE8QWI	Cal W8BZP
Bob N8KBX	Neal NFIX
Don WA8TWM	Evan W8LSQ
Amy Bevan	Greg Bevan
Bob K8QXO	Cathie AB8GV

Meeting Minutes:

- Meeting called to order by Ed (KB8BKE) at 7:29 p.m.
- This meeting took place virtually and in person at the Tri Point Medical Pavilion

President – Ed (KB8BKE) mentioned:

- The motion to accept the minutes for the last meeting in Oct was accepted by Joe and Bob

Member At Large: Joe (N8JKO)

- The club picnic is now scheduled for Saturday July 13th, 2024 at Chagrin River Reservation.
- Upcoming speakers – Joe will be presenting on his NVIS antenna at the April '24 Meeting.

New Business:

- In February 2024 there will be an ARES District 10 meeting at Tri Point with a variety of speakers. . LCARA will be the host club.

Radio / Repeaters: Bill (N8IJG):

- The repeaters are working well.
- We are still in the process of adding the Painesville input and replacing antennas at Tri Point.

Secretary Report: Tom (KE8HJL)

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- 3 members paid their dues at the meeting.

Treasurer Report: Ed (KB8KBE):

- Annual Budget Discussion
 - Ed discussed the key points of the budget proposal for 2024
 - A motion to accept was made by Bob and Joe. Budget was approved unanimously.

Sunshine: Bob (K8QXO)

- N/A

DX Report: Jim (AA80Y)

- See Jim's report

Public Service: Mike (WB8ZGH)

Upcoming events:

- Nothing remaining this year.
- Winter Field Day is January 27&28
- ARES District 10 Conference February 17th at Tri-Point
- NVIS Day will be April 27th probably at Garfield's Home

Historical Society: Bob (K8QXO):

- Nothing to report.

ARRL Liaison: Bob (W2THU):

- Scott N8SY won the election for Director of Great Lakes Region.

Ohio Legislative Liaison: Bob (W2THU)

- N/A

VE Testing: Don (WA8TWM)

- 6 candidates passed.

ARES: Mike (WB8ZGH).

- N/A

Nets: Ed (KB8BKE)

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

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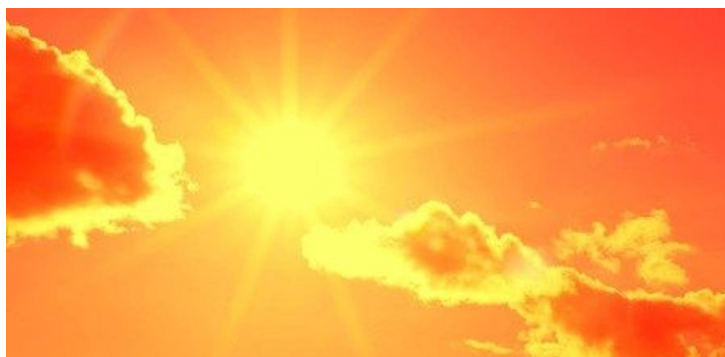
Wednesday: 8:30 pm. – Lake Co. ARA 10 Meter Round-Table Net – 28.450 MHz +/-

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

50/50 Raffle - \$27 – Cal (W8BZP) won

Meeting adjourned at: 8:20 p.m.

Tom (KE8HJL)



Sunshine Report:

by: Bob Mekinda K8QXO

No Report

Backscatter for January 2024

by: *Scott Farnham KO8O*

LCARA Historian



BACKSCATTER

2070 Years Ago: Julian calendar year One. Created by Julius Caesar, it was based on a solar year of twelve months, a total of 365 days, with an extra day every fourth year. The previous Roman calendar had been behind by 67 days, making that 1st year an extraordinary 445 days long in order to synchronize with the equinoxes. Unfortunately, since the real solar year is slightly longer than the 365.25 day average, as centuries passed, the calendar was again out of step with the seasons. In 1582, Pope Gregory XIII issued a papal bull for the Gregorian calendar reform, which skipped 10 days, and refined the leap year rule.

112 Years Ago: The first radio broadcast demonstration in the U.S. was given by Nathan B. Stubblefield in Fairmont Park NJ. He transmitted his voice to a receiver a mile distant, but kept the details of the invention secret until he was issued a patent. However, unable to obtain a buyer for his invention, he received little notice.

78 Years Ago: ENIAC is created by John Mauchly and J. Presper Eckert at the University of Pennsylvania. It is regarded as the first successful general digital computer, and weighed over 60,000 lb, containing more than 18,000 vacuum tubes. A staff of six technicians replaced about 2000 tubes each month. Many of ENIAC's first tasks were for the military, such as calculating ballistic firing tables and designing atomic weapons. Since it was initially not a stored program machine, it had to be reprogrammed for each task.

52 Years Ago: Coordinated Universal Time (UTC) was adopted worldwide. The abbreviation - UTC - was chosen as an international compromise between the initials of the English language "coordinated universal time" and French "temps universel co-ordonné." Leap seconds are added periodically, about once each 18 months, to match the Earth's rotation, which is slightly variable due to tidal forces with the Moon

45 Years Ago: No Code dead? The FCC votes in the strongest possible manner to retain the Morse code requirement for all classes of amateur radio licenses. PRB chief Robert Foosaner and Chairman Mark Fowler state that code is very important, and in some cases essential for getting the message through.

Vic Clark, W4KFC, ARRL President, RIP.

40 Years Ago: STS 9, the first shuttle to carry an amateur, is now history. Owen Garriott, W5LFL, makes a number of hams happy with their first space QSO. Will he count as a new country on the basis of separation by vacuum?

The 3.5" floppy is born. ANSI selects the new standard over competing 3", 3.25" and 4" formats.

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35 Years Ago: Ken, N8EIH, reports on DX conditions in Hawaii. While visiting KH6 land for his 10th anniversary celebration, XYL Deena allows limited 2m operation. Putting his call on the linked inter-island repeater, he receives the response "QRZ? This is K8NYZ on the island of Kauai, visiting from Mayfield Heights, Ohio.

30 Years Ago: RU ready? Major changes in the former Soviet Union have created new prefixes. Armenia, ex UG, is now EK. Azerbaijan, ex UD, is now 4J. Belarus, ex UC, is now EU-EW. Georgia, ex UF, is now 4L. Kazakh, ex UL, is now UN-UQ. Kirghiz, ex UM, is now EX. Moldavia, ex UO, is now ER. Russia doesn't change, but Turkoman, ex UN, is now EZ. Ukraine, ex UB, is now UR-UZ & EM-EO. Finally, Uzbek, ex UI, is now UJ-UM. Test follows later.

Happy Birthday! Cell phones are 10 years old, with more than one million customers, half of them in California.

25 Years Ago: The ARRL files formal comments in response to the FCC's proposed streamlining of amateur radio rules. Included in the League's plan are elimination of Novice and Tech Plus license classes, with existing Novice and Tech Plus amateurs being upgraded to General class. Code requirements would be reduced to two levels, 5 and 12 WPM, with the entry level remaining no-code.

20 Years Ago: Keeping up with the times, the International Telegraph Union in Geneva adds "@" to the Morse code character set, using .--.-. (letters A and C together).

Antenna Rules of Thumb, provided by Dee, W1HEO, include:

If it stays up, it wasn't high enough.

Temporary installations tend to become permanent.

Permanent installations never are.

Antenna efficiency is inversely proportional to ambient temperature at the time of installation.

The Patch profiles Dennis, AB8NI and Roofus.

15 Years Ago: Pictures of members at the December Club Dinner show three hams wearing very strange headgear.

10 Years Ago: The January Patch points out that January 8th is Tupelo, Mississippi born "singer, musician, and actor" Elvis Aaron Presley's birthday.

In what is billed as a mini-field day operation. PCARS, the Portage County Amateur Radio Service holds special events station FYAO, "Freeze Your Acorns Off"

First Class postage increases from 46 to 49 cents.

5 Years Ago: The antenna at the Breckenridge remote site has been replaced. In December! See "Antenna Rules" from 15 years earlier.

AES REOPENS! Kinda

Good news ... the Wickliffe AES store is open again! The good news is it's much less expensive ... the bad news is there are no radios. It has been reincarnated as a Bigby Coffee. The coffee is noticeably improved from what AES used to serve, especially when the pot was several hours old. Stop by and relive old memories. Another advantage, as The Wife points out, it's much easier to hide your purchases!

DX Alert

by: *Jim Pyle AA8OY*



January 2024 DX Alert

XW – Laos. F4BKV, Vincent, expects to be operating as XW4KV, and regularly through mid-2024. He is on 10 and 15M with 100W, a quad loop, and a vertical dipole. Listen for Vincent on FT8, and when propagation is good, on SSB.

CE9/A - Antarctica. Starting December 14th, RQ8K, Igor, is QRV as RI1ANE from the Russian Progress research station in Antarctica. He is there until May 2025.

DU – Philippines DU7ET, Bob, has arrived in the Philippines for a two month stay. He will be operating on the beach with one kilowatt, concentrating on 160 and 80M CW.

FW4 – Wallis and Futuna Islands. FW4AT, Marin, is the newly-licensed 13-year-old son of FW1JG, Jean-Gabriel. Marin is on 40, 30, 20, 17, 15, 12, 10, and 6M FT8.

V5 – Namibia. F5LCX, Eric, will be active as V5/F5LCX from Namibia December-January 11. He plans to operate both mobile and fixed for a few hours daily.

YB – Indonesia. F5LIT, Emmanuel, will operate at YB9/F5LIT from January 22 to February 1. He will on 40-10M SSB.

ZF – Cayman Islands K5GO, Stan, has been at ZF9CW since November 9, 2023, and will remain there until February 20.

3W – Vietnam - The new call sign for Eddy, XV1X, is XV9T. His other call, 3W1T, has been replaced with 3W9T.

Happy hunting!

Jim, AA8OY

Thanks to the ARRL DX

Upcoming Contests: (from the OSJ)

Check out the WA7BNM Contest Calendar page <https://www.contestcalendar.com/>

January 1 - 7

+ AGB New Year Snowball Contest	0000Z-0100Z, Jan 1
+ SARTG New Year RTTY Contest	0800Z-1100Z, Jan 1
+ AGCW Happy New Year Contest	0900Z-1200Z, Jan 1
+ AGCW VHF/UHF Contest	1400Z-1700Z, Jan 1 (144) and 1700Z-1800Z, Jan 1 (432)
+ ARS Spartan Sprint	0200Z-0400Z, Jan 2
+ VHF-UHF FT8 Activity Contest	1700Z-2100Z, Jan 3
+ UKEICC 80m Contest	2000Z-2100Z, Jan 3
+ Walk for the Bacon QRP Contest	0000Z-0100Z, Jan 4 and 0200Z-0300Z, Jan 5
+ NRAU 10m Activity Contest	1800Z-1900Z, Jan 4 (CW) and 1900Z-2000Z, Jan 4 (SSB) and 2000Z-2100Z, Jan 4 (FM) and 2100Z-2200Z, Jan 4 (Dig)
+ SKCC Sprint Europe	2000Z-2200Z, Jan 4
+ PODXS 070 Club PSKFest	0000Z-2400Z, Jan 6
+ Marconi Club ARI Loano QSO Party Day	0700Z-2100Z, Jan 6
+ WW PMC Contest	1200Z, Jan 6 to 1200Z, Jan 7
+ RSGB AFS Contest, CW	1300Z-1700Z, Jan 6
+ ARRL RTTY Roundup	1800Z, Jan 6 to 2400Z, Jan 7
+ ARRL Kids Day	1800Z-2359Z, Jan 6
+ EUCW 160m Contest	2000Z-2300Z, Jan 6 and 0400Z-0700Z, Jan 7

January 8 - 14

+ DARC RTTY Sprint	1800Z-1929Z, Jan 9
+ VHF-UHF FT8 Activity Contest	1700Z-2100Z, Jan 10

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+ EACW Meeting	1900Z-2000Z, Jan 11
+ YB DX Contest	0000Z-2359Z, Jan 13
+ SKCC Weekend Sprintathon	1200Z, Jan 13 to 2400Z, Jan 14
+ UBA PSK63 Prefix Contest	1200Z, Jan 14 to 1200Z, Jan 15
+ North American QSO Party, CW	1800Z, Jan 13 to 0559Z, Jan 14
+ WAB 1.8 MHz Phone	1900Z-2300Z, Jan 13
+ NRAU-Baltic Contest, SSB	0630Z-0830Z, Jan 14
+ NRAU-Baltic Contest, CW	0900Z-1100Z, Jan 14
+ DARC 10-Meter Contest	0900Z-1059Z, Jan 14
+ RSGB AFS Contest, Data	1300Z-1700Z, Jan 14

January 15 - 21

+ 4 States QRP Group Second Sunday Sprint	0100Z-0300Z, Jan 15
+ VHF-UHF FT8 Activity Contest	1700Z-2100Z, Jan 17
+ Walk for the Bacon QRP Contest	0000Z-0100Z, Jan 18 and 0200Z-0300Z, Jan 19
+ NAQCC CW Sprint	0130Z-0330Z, Jan 18
+ NTC QSO Party	1900Z-2000Z, Jan 18
+ Hungarian DX Contest	1200Z, Jan 20 to 1159Z, Jan 21
+ PRO Digi Contest	1200Z, Jan 20 to 1159Z, Jan 21
+ RSGB AFS Contest, SSB	1300Z-1700Z, Jan 20
+ North American QSO Party, SSB	1800Z, Jan 20 to 0559Z, Jan 21
+ NA Collegiate Championship, SSB	1800Z, Jan 20 to 0559Z, Jan 21
+ ARRL January VHF Contest	1900Z, Jan 20 to 0359Z, Jan 22
+ Feld Hell Sprint	2000Z, Jan 20 to 0559Z, Jan 21
+ Run for the Bacon QRP Contest	2300Z, Jan 21 to 0100Z, Jan 22

January 22 - 28

+ SKCC Sprint	0000Z-0200Z, Jan 24
+ NAQCC CW Sprint	0130Z-0330Z, Jan 25
+ Australia Day Contest	2200Z, Jan 25 to 1000Z, Jan 26
+ CQ 160-Meter Contest, CW	2200Z, Jan 26 to 2200Z, Jan 28
+ REF Contest, CW	0600Z, Jan 27 to 1800Z, Jan 28
+ BARTG RTTY Sprint	1200Z, Jan 27 to 1200Z, Jan 28
+ UBA DX Contest, SSB	1300Z, Jan 27 to 1300Z, Jan 28
+ Winter Field Day	1900Z, Jan 27 to 1900Z, Jan 28

Upcoming Ham Fests: (from the OSJ)

Ohio Hamfests

2024

01/14/2024 - [Sunday Creek Amateur Radio Federation Hamfest](#)

Location: Shade, OH
Sponsor: club members
[Learn More](#)

03/10/2024 - [WINTERHAMFEST](#)

Location: Elyria, OH
Sponsor: Northern Ohio Amateur Radio Society
Website: <http://winterhamfest@noars.net>
[Learn More](#)

03/17/2024 - [Toledo Mobile Radio Association Hamfest and Computer Fair](#)

Location: Perrysburg, OH
Sponsor: Toledo Mobile Radio Association
Website: <http://www:w8hhf.org>
[Learn More](#)

04/13/2024 - [Mid-Ohio Valley Amateur Radio Club](#)

Location: Bidwell, OH
Type: ARRL Hamfest
Sponsor: Mid-Ohio Valley Amateur Radio Club
[Learn More](#)

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05/16/2024 - 05/19/2024

[Four Days In May](#)

Location: Fairborn, OH

Type: ARRL Convention

Sponsor: QRP Amateur Radio Club International

Website: <http://qrparci.org/fdim>

[Learn More](#)

07/21/2024 - [Van Wert Hamfest](#)

Location: Van Wert, OH

Type: ARRL Hamfest

Sponsor: Van Wert Amateur Radio Club

Website: <http://w8fy.org>

[Learn More](#)

8/10/2024 - [Cincinnati Hamfest](#)

Location: Owensville, OH

Sponsor: Milford ARC

Website: <https://CincinnatiHamfest.org>

[Learn More](#)

08/18/2024 - [Warren Hamfest](#)

Location: Cortland, OH

Sponsor: Warren Amateur Radio Association

Website: <https://www.w8vtd.com/>

[Learn More](#)

ARRL News:

ARRL January VHF Contest

For amateurs in the US and Canada (and their possessions) to work as many amateur stations in as many different 2 degrees x 1 degree Maidenhead grid squares as possible using authorized frequencies above 50 MHz. Stations outside the US & Canada (and their possessions) may only work stations in the US (and its possessions) and Canada.

January 20-22, 2024 1900 UTC Saturday - 0359 UTC Monday.

Rule Changes for 2024: Participants in the FM Only category can now count contacts made on 902 MHz and 1.2 GHz toward their scores. Previously, only contacts on the four lowest VHF bands (50, 144, 222 and 432 MHz) counted toward participants' scores in this category. All legal modes are permitted (while CW and SSB/Phone are most common, MSK144, FT8 and FM-Only are gaining popularity - other popular modes include PSK31, FSK441 and JT65). For Cabrillo file mode definitions, Digital modes should be represented as "DG" (for all things digital), SSB Phone as "PH", FM voice as "FM", and CW as "CW". Stations in KH0-9, KL7 & KP1-KP5, CY9 and CY0 count as W/VE stations and can be worked by DX stations for contest credit.

<https://contests.arrl.org/ContestRules/JanJunSep-VHF-Rules.pdf>

For contest information contact contests@arrl.org or (860) 594-0232

[The K7RA Solar Update](#)



The Winter Solstice, the shortest day of the year in the Northern Hemisphere occurred at 0327 UTC on December 22. [Read More](#)

[Status of CQ Magazine](#)



CQ Editor Rich Moseson, W2VU, acknowledged delays in delivering CQ magazine. He indicated that the November and December issues are delayed but plans are to get them out to the readership as soon as circumstances permit. [Read More](#)

[2024 ARRL National Convention to be at Hamvention](#)



ARRL and Hamvention have announced that Hamvention will host the 2024 ARRL National Convention, May 17, 18, and 19 at the Greene County Fairgrounds in Xenia, Ohio. [Read More](#)

Ohio Section News:

Ohio ARES VHF Simplex Contest

ARES is tasked with being able to provide communications “When all else fails.” Local communication is critical and typically takes place on the VHF or UHF amateur band. In order to improve our ability to perform on these bands, Ohio Section ARES is sponsoring the ARES VHF Contest (Yeah, we know, but calling it the Ohio VHF / UHF Contest got a little long-winded). Participants in the contest are encouraged to make as many contacts as possible within the timeframe of the contest, with as many different geographical locations as the bands permit. The contest is open to all amateur operators, ARES members are strongly encouraged to participate.

Saturday, January 20, 2024 – 10:00 AM EST to 4:00PM EST (1500 – 2100 UTC)

The Ohio VHF Simplex contest occurs on the same Saturday as, and just before, the [ARRL January VHF Contest](#). The contest period for the Ohio ARES VHF Contest is from 1000 AM EST (1500 UTC) to 1600 PM EST (2100 UTC). All stations may operate the full six hours. The last two hours of this contest overlap with the beginning of the ARRL January VHF Contest. The 2024 contest will be January 20, 2024.

All contacts must be made using station to station simplex transmissions. No repeaters, hotspots, or other types of relaying are permitted. Cross-mode or cross-band contacts are not permitted. No use of store-and-forward messaging systems, such as Winlink, are permitted.

More info can be found at <https://ohsimplex.org/>

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Ohio Section Cabinet

Section Manager – Tom Sly, WB8LCD	Section Traffic Manager – David Maynard, WA3EZN
Section Emergency Coordinator – Bret Stemen KD8SCL	Section Youth Coordinator – Anthony Luscre, K8ZT
Technical Coordinator – Jeff Kopcak, K8JTK	Affiliated Clubs Coordinator – Amanda Farone – KC3GFU
State Government Liaison – Bob Winston, W2THU	Public Information Coordinator – Elizabeth Klinc - KE8FMJ

Lake County News

District 10 ARES Conference

Ohio ARES District 10, is pleased to present the 2024 ARES Conference on Saturday, February 17th, from 8a until 4p. This event is open to all. You do not have to be associated with ARES to attend. Anyone who is interested in amateur radio communications is welcome. Registration is FREE, and all attendees will be provided donuts and coffee in the morning, as well as pizza and salad for lunch. (Donations are encouraged to offset costs).

Go-Box Display

Please bring your Go-Box to add to our Go-Box display. Boxes will be viewable between sessions and during lunch.

Registration is **REQUIRED** to ensure we don't overfill the conference room, and for lunch planning purposes. Please click the link below to register.

<https://n8esq.org/crm/event/info/?id=541&reset=1>

Location:

Tri-Point Medical Center Physicians Annex
7590 Auburn Rd
Painesville, OH 44077

When entering the facility off Auburn Rd, take the main hospital entrance drive and turn right to the lower level parking area.. Entrance is on north end of the facility. The conference room is on the ground floor past the elevators.

Talk-In Frequency for directions

146.415 Simplex
147.015/R 110.9

Ham Radio Trivia Quiz (Answers on page 25)

Which of these is NOT a UK call sign?

- A: GD0AGF
- B: 2M0AUF
- C: MP56HAP
- D: MM5TQA

A vertical (ground plane) antenna radiates in how many degrees of azimuth?

- A: 180 degrees
- B: 90 degrees
- C: 45 degrees
- D: 360 degrees

During the days when licenses required a Morse code test, one had to pass the written portion before taking the code test.

- A: True
- B: False

Rain/snow/ice on an antenna can cause the SWR (standing wave ratio) to increase .

- A: True
- B: False

The circuit type / functional block that is the heart of a PLL (Phase Locked Loop) is:

- A: Feedback Operational Amplifier (FOA)
- B: Detector-discriminator (DD)
- C: Voltage controlled Oscillator (VCO)
- D: Voltage controlled Attenuator (VCA)



VE Testing Sessions HAM EXAMS

The Lake County Amateur Radio Association will be holding Amateur Radio license exams on the following dates in 2024:

Saturday, February 3rd
Saturday, April 6th
Saturday, June 1st

Saturday, August 3rd
Saturday, October 5th
Saturday, December 7th

Testing sessions are held on the first Saturday of every even-numbered month (e.g., February being the second month, etc.) at the Kirtland Library, 9267 Chillicothe Road. The library is 1.7 miles south of I-90 on Route 306 (Chillicothe Rd) and shares a driveway with the Kirtland Municipal Center.

The tests will start at **12 noon**. Please arrive 15 minutes earlier.

To take an exam, you will need a NCVEC 605 Form, which will be available at the test. If you would like to complete one ahead of time, use this link:

https://www.arrl.org/files/file/VEs/NCVEC_Form_605_July_2022_INTERACTIVE.pdf

. Please note **the FCC requires you to provide a FRN** (FCC Registration Number). Social Security Numbers are no longer accepted. If you are new to ham radio and don't have a FRN, instructions can be found here;

<https://www.fcc.gov/wireless/support/knowledge-base/universal-licensing-system-uls-resources/getting-fcc-registration>

If you are currently licensed, be sure to bring a copy of your license to the exam. The cost of the exam itself 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. If you have any questions, please contact Scott Farnham, KO8O, at (440) 256-0320, or scottfarnham@roadrunner.com

In addition to the \$15 test fee, **the FCC now charges \$35** to add you to the Amateur Radio database. The FCC will e-mail successful candidates instructions for payment directly to them. **Payment must be made within 10 days of the e-mail.** This charge does not apply to upgrades.



LICENSE RENEWAL (revised)

Doing our VE Tests, I often am asked how to renew one's license. It's been five years since I checked, so it seems time to check how much the process has changed. The answer is ... \$35. Starting about a year ago, the FCC has added a fee to update the database. Now there are two steps:

Step 1: Request an upgrade with the FCC. This costs between zero and \$15, depending on how you go about it. These \$\$ go to the ARRL or W5YI (see below).

Step 2: Then pay \$35 directly to the FCC.

STEP 1:

This can be simple and free, or cost \$8, or cost \$15, or be a real PITA. Renewals can only be made within 90 days of expiration. If you're a little late, don't sweat it, as there's a two year grace period.

There are several ways you can go about requesting your license be renewed:

1. If you're an ARRL member (you are, aren't you ... it is the best deal in amateur radio, and they need your support to defend our frequencies), fill out the NCVEC Form 605, available in pdf from several sources if you Google "NCVEC Form 605". Then mail it with a note that it's a renewal request to: ARRL/VEC at 225 Main St, Newington CT 06111. It's free. If you do this, make sure your Form 605 is the Sept 2017 version or later, and include your FRN, which is probably on your current license. Check the "FCC ULS" database if it isn't. Note that social security numbers are no longer accepted.
2. If you're not an ARRL member, you can do the same thing, but enclose a \$15 check payable to ARRL/VEC with the form..
3. You can have W5YI do it for you at www.w5yi.org Click on "License Renewals" along the left side of the screen and follow the instructions. This costs \$8. Or mail a completed NCVEC Form 605 and \$8 to them at W5YI-VEC, PO Box 200065, Arlington, TX 76006-0065
4. You can do it yourself directly with the FCC. Google "FCC ULS" Click on "UNIVERSAL LICENSING SYSTEM" then click "FILE ONLINE" which takes you to the FCC License Manager page and follow the instructions. This is NOT easy. Note that it has been reported the FCC no longer accepts paper requests for renewal.

If you really don't have a FRN number, on the FCC License Manager in 4 above, click on "Register with the FCC" and follow the instructions. Be sure to link your new FRN with your existing license. After receiving a

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FRN, you can go back to the ULS Home Page and click on ONLINE FILING to request an update/renewal to your license..

Regardless of which method you choose, if the US Postal Service is not involved, it may be as quick as one or two days. You are now ready go on to

STEP 2:

The FCC will e-mail you a request to pay \$35 via a credit card. This must be done within 10 business days. They will then change the database to show your new expiration date. They no longer mail licenses; you have to print it out from the FCC ULS site.

Scott KO8O

Third Tuesday Breakfast Group 2021



Mark your calendars!

The next meeting of the Tuesday Morning Breakfast Group is **January 16th**.. Join us at the Perkins Family Restaurant, 700 Mentor Avenue in Painesville. Attendees begin to gather around 8:00am Breakfast orders are taken around 8:30am.. Club membership is not a requirement to attend, and group averages 15-20 people from all around the area. A chance to 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. Good food and conversation.



LCARA Board Meeting

Board Meeting



The LCARA Board meets virtually online on the second Wednesday of each month.

. Meetings are open to all members.

Contact any board member if you'd like to attend.

Our Weekly Nets

Lake County ARES Net

The ARES Net is held **weekly on Mondays at 7:30 pm on 147.210/R (b/u 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

09:00 – Trivia Net – 146.940 (pl 110.9)

10:30 – 16:45 – 18:45 – OSSB Net – 3.9725

18:00 – Ohio (slow) – 3.53535

18:45 – Buckeye (early) – 3.580

20:00 – Geauga Emergency Amateur Radio Service Training Net – (check in on 146.940/R - then moves to 147.435/s)

Tuesday

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09:00 – Trivia Net – 146.940 (pl 110.9)

10:30 – 16:45 – 18:45 – OSSB Net – 3.9725

18:00 – Ohio (slow) – 3.53535

18:45 – Buckeye (early) – 3.580

19:15 – Ohio HF Emergency Preparedness Net - 3.910 MHz (+/-) or 7.240 (+/-)

19:30 – Swap-N-Shop – 147.015 (pl 110.9)

19:45 – Ohio Digital Emergency Net - 3.584.5 (USB) - 1500 Hz data carrier offset – Olivia 8-500

21:00 – Tri-County Traffic Training Net – 147.015 (pl 110.9)

Wednesday

09:00 – Trivia Net – 146.940 (pl 110.9)

10:30 – 16:45 – 18:45 – OSSB Net – 3.9725

18:00 – Ohio (slow) – 3.53535

18:45 – Buckeye (early) – 3.580

20:00 – Quarter Century Wireless Association Net – 147.015 (pl 110.9)

Thursday

09:00 – Trivia Net – 146.940 (pl 110.9)

10:30 – 16:45 – 18:45 – OSSB Net – 3.9725

18:00 – Ohio (slow) – 3.53535

18:45 – Buckeye (early) – 3.580

19:30 – Ohio ARES Dist.10 DMR Net – TG 31395

20:00 – Ashtabula Radio Club 2 Meter Net – 146.715 (pl 141.3) – (Echo link node- N8CT/L)

20:00– Lake Erie ARA 2 Meter Net – 146.760 (pl 110.9) – (back/up 146.880 – pl 110.9)

20:00 – Portage County Amateur Radio Society 2 Meter Net – 146.895 (pl 118.8 – Streetsboro input) (Echo link: K8BF-L node #508081)

Friday

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09:00 – Trivia Net – 146.940 (pl 110.9)

10:30 – 16:45 – 18:45 – OSSB Net – 3.9725

18:00 – Ohio (slow) – 3.53535

18:45 – Buckeye (early) – 3.580

21:00 – Tri-County Traffic Training Net – 147.015 (pl 110.9)

Saturday

09:00 – Trivia Net – 146.940 (pl 110.9)

10:30 – 16:45 – 18:45 – OSSB Net – 3.9725

14:00 -. Swan Tech Net – 7.235 MHz

15:30 – Kenwood Hybrid Tech Net – 7.235 MHz

18:00 – Ohio (slow) – 3.53535

18:45 – Buckeye (early) – 3.580

Sunday

08:00 – DX 60 Net – 3.880 MHz – **AM mode**

09:00 - Trivia Net – 146.940 (pl 110.9)

10:30 – 16:45 – 18:45 – OSSB Net – 3.9725

16:00 – Drake Tech Net – 7.238 MHz

18:00 – Ohio (slow) – 3.53535

18:45 – Buckeye (early) – 3.580

21:00 – Tri-County Traffic Training Net – 147.015 (pl 110.9)

Sell, Seek or Trade

Joseph Koskovics < n8jko@outlook.com >

For Sale:

Flight Case: \$60.00

The case is a Stellar Labs flight case, from the former MCM Electronics. It is a 4 rack space unit that has a 7 in high opening with rack rails. The case is 15 in deep and accommodates standard rack shelves. The unit has seen no real use and is in mint condition and includes one rack shelf. Price is \$60. Please contact by email.

Cal Pengov < cpengov@att.net >

For Sale:

Mosely TA36

Six element beam with rotor and manual \$250.00

Collins 30L-1

HF Linear Amplifier with high output tubes with manual \$800.00

Bill Collins < 440-221-9150 >

For Sale:

- 1) Ameritron 811 Amp \$600.00
- 2) Palstar AT2K 200 watt tuner \$500.00
- 3) Alinco DR735 2mtr/70cm \$250.00 (incl. RT Software and prgmng cable)
- 4) Yeasu FT2000 HF/50mhz txcvr \$1200.00 (incl MD100 mic)
- 5) SO2000 spkr \$150.00
- 6) Stryker HP955 10 mtr txcvr \$350.00



January 2024

Sun.	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.
	1 New Years Day	2	3 LCARA Meeting 7:30pm	4 2 Mtr. Net 7:00pm	5	6 Feast of the Epiphany
7	8 LC ARES Net. 7:30pm	9	10 LCARA Board Mtg. 7:30pm 10 Mtr. Net 8:30pm	11 2 Mtr. Net 7:00pm	12	13
14 Martin Luther King Day	15 LC ARES Net 7:30pm	16 3 RD Tuesday Breakfast	17 10 Mtr. Net 8:30pm	18 2 Mtr. Net 7:00pm	19	20 ARES VHF Simplex Contest ARRL January VHF Contest
21 ARRL January VHF Contest	22 LC ARES Net 7:30pm	23	24 10 Mtr. Net 8:30pm	25 2 Mtr. Net 7:00pm	26	27
28	29 LC ARES Net. 7:30pm	30	31 10 Mtr. Net 8:30pm	2 Mtr. Net 7:00pm		

QRZ Ham Radio Trivia Quiz Answers

Which of these is NOT a UK call sign?

A: GD0AGF

B: 2M0AUF

C: **MP56HAP (Correct)**

D: MM5TQA

A vertical (ground plane) antenna radiates in how many degrees of azimuth?

A: 180 degrees

B: 90 degrees

C: 45 degrees

D: **360 degrees (Correct)**

During the days when licenses required a Morse code test, one had to pass the written portion before taking the code test.

A: True

B: **False (Correct)**

Rain/snow/ice on an antenna can cause the SWR (standing wave ratio) to increase .

A: **True (Correct)**

B: False

The circuit type / functional block that is the heart of a PLL (Phase Locked Loop) is:

A: Feedback Operational Amplifier (FOA)

B: Detector-discriminator (DD)

C: **Voltage controlled Oscillator (VCO) (Correct)**

D: Voltage controlled Attenuator (VCA)

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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, Family (household) \$30.00, 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.

The Lake County Amateur Radio Association

*P.O. Box 1032
Painesville, OH 44077-1032*

Proudly serving Lake County & NE Ohio since 1978

To contact us, send an e-mail to: <https://www.lcara.org/contact-us/>

Voice Repeaters N8BC

*147.210 +.600 MHz -PL tone of 110.9 Hz
Echo link N9JG/R Node #665499
224.500 - 1.6MHz -PL tone of 141.3 Hz.
444.650 + 5.0MHz -PL tone of 131.8 Hz.*