



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 AA8OY
History: Scott KO8O
Sunshine: Vacant

Standing Committees

ARES/Public Service	Mike Goffos	WB8ZGH
ARRL /OH Gov. Liaison	Bob Winston	W2THU
Contest	Bob Liddy	K8BL
DX	Jim Pyle	AA8OY
Field Day Chair	Jim Pyle	AA8OY
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	Open	
Web Master LCARA	Bill Wihebrink	N8IJG

***Our next club Meeting: December 6th, 2023
@ the UH Tri-Point Physicians Pavilion
Lower Level entrance
Meeting Rm. #2***

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Message from the President

Greetings fellow travelers,

Our **next club meeting** will be held on **December 6th**, at **UH Tri-Point Physicians Pavilion**. 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. We have no presenter scheduled for this meeting and will be going over our operating budget for 2024. There will be pizza! Any who would like to bring a dessert are encouraged to do so.

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 made. Keep an eye on your email for updates.

LCARA membership renewals are due by December 31st. (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.

Also, for those about to renew your ARRL membership, remember we are 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, available here:

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

Contact myself or any board member to get a pre-filled form.

On behalf of the board, I'd like to wish you all the best of the upcoming holiday season.

Merry Christmas everyone!

Stay safe and be well.

'73

-Ed

Membership Meeting Minutes

Membership Meeting Minutes for 11,1, 2023

Board Members Present:

KB8BKE – Ed Kopcak, President / Treasurer
KE8HJL – Tom Revolinsky, Secretary
N8IKO – Joe – Member at Large

Attendees:

Ed KB8BKE
Joe -N8JKO
Larry WB8PHI
Steven KD8RFJ
Bob W2THU
Marty KE8QWI
Mike WB8ZGH
Fran
Bob K8QXO
Neal N1FX
John KB8YJY

Tom KE8HJL
Jim AA8OY
Bill N8WCL
Scott N8SY
Doug N8FRJ
Don KE8ZBH
Bob K8BL
Bob N8KBX
Evan W8LSQ
Greg KE8WZT
Dave KE8WOC

Meeting Minutes:

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

President – Ed (KB8BKE) mentioned:

- The motion to approve the minutes for the last meeting in Oct was accepted by N8JKO and seconded by K8QXO. Motion passed unanimously.

Speaker: Doug Fried spoke about the MARS (Military Auxiliary Radio System) a US Department of Defense program that consists of a civilian auxiliary consisting of amateur radio operations who assist the military with communications on a regional and national level. They tend to do NVIS as the operators are fairly close together.

Member At Large: Joe (N8IKO)

- If anyone has suggestions for the 2024 picnic, please let Joe know soon as the reservations for next year are opening after the holidays.

New Business:

- At the December meeting we will have the annual budget discussion.
- Joe spoke about the challenges buying fake SD cards on Amazon. There is a FREE program to verify if a card is an original or not!!!
- In February 2024 there will be a District 10 ARES meeting at Tri Point with a variety of speakers. LCARA will be hosting. All are welcome to attend

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Radio / Repeaters: Ed KB8BKE:

- The repeaters are working well.
- ComServ is willing to donate space to LCARA on their Painesville Twp. tower for a third remote input.

Secretary Report: Tom (KE8HJL)

- Nothing to report

Treasurer Report: ED (KB8KBE):

- Treasury is in good shape.

Sunshine:

- Nothing to report

DX Report: Jim (AA80Y)

- Jim (see newsletter)

Public Service: Mike (WB8ZGH)

Upcoming events:

- Nothing remaining this year.
- At NO Marathon on Saturday, we tracked 114 runners.
- NVIS will be in April.

Historical Society: Bob (K8QXO):

- A BBQ event was held earlier in October
- We assisted with parking for the visitors to the trick or treat event.

ARRL Liaison: Bob (W2THU):

- You have until Nov 17th to vote for division director

VE Testing: Don (WA8TWM)

- Next session December 2nd

Ohio Legislative Liaison: Bob (W2THU)

- No report

ARES: Joseph (N8JKO).

- Nothing to report

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Nets: Ed (KB8BKE)

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

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 - \$19 – .

Meeting adjourned at: 8:30 p.m.

Tom (KE8HJL)



Sunshine Report:

No Report

Backscatter for December 2023

by: *Scott Farnham KO8O*

LCARA Historian



BACKSCATTER

146 Years Ago: Thomas Edison demonstrated the first sound recording, reciting "Mary had a Little Lamb" at his Menlo Park Laboratory, making the first surviving recording of the human voice. John Kruesi built the equipment, from a sketch given him by Edison. When Kruesi heard Edison's first words, he exclaimed "Gott in Himmel!" ("God in Heaven").

92 Years Ago: A U.S. patent is issued for a "concentric conducting system", eg, coaxial cable. The patent was assigned to American Telegraph and Telephone Co. for use in television, for which a wide range of frequencies is required.

78 Years Ago: The microwave oven is patented.

62 Years Ago: The first satellite built by private citizens was put in to orbit. A Thor-Agena rocket, launched to deploy a military Discoverer-36 satellite, also carried the 10-lb OSCAR I. The Orbiting Satellite Carrying Amateur Radio transmitted "HI" in Morse code 10 times a minute. Designed and hand-built for \$63 by California radio amateurs, the battery powered 144.983 MHz 140-mW transmitter continued for 22 days, when its non-rechargeable battery failed. It burned up in the atmosphere the following January.

45 Years Ago: Wayne, WB8ZWR, describes details of the upcoming April 1st ham fest, LCARA's first. To be held at the Lake County Armory, next to the Painesville fairgrounds, it is hoped it will "put LCARA on the map", and fund expansion of the repeater.

40 Years Ago: Hams in Space! The launch of STS 9, the first shuttle to carry an amateur, is set for November 28th. Owen Garriott, W5LFL, will make simplex QSOs as permitted by his work schedule.

Hams to the Rescue! On October 25th, war breaks out in Grenada. A ham on the island, Mark Barattella, KA2ORK, is the only contact with the world for 175 Americans isolated on the island.

35 Years Ago: The Good Ducky Award is created by Dee, W1HEO, to be awarded monthly to a deserving member.

Rotuma, administered by Fiji, is claimed to be a "new one" due to separation by water. It is immediately activated by a group using the call 3D2XX.

K8BL relates the theory of smoke as used in IC's. IC's work on smoke inserted into the chip at the time of manufacture. This smoke is put into the chip via a hole next to pin 1, which is then plugged. When the smoke escapes, the IC ceases to function. That's why you'll find that plugged hole next to pin 1.

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30 Years Ago: Hams eat steak? Or do they really have a beef? LCARA's ham lunch meets every Friday at Ponderosa Steak House at Euclid Square Mall.

25 Years Ago: First Class postage increases to 33 cents, and ARRL Outgoing QSL fees increase to \$6.00 per pound.

The RL Drake Company will no longer provide factory service for most of its older amateur and marine equipment. Service Manager Bill Frost, WD8DFP, says it's getting harder to get parts and qualified technicians for the older units, which are mostly tube gear.

20 Years Ago: After 72,000 orbits and a similar number of charge/discharge cycles of its NiCd batteries, UO-14's service life is over. An FM voice LEO satellite, working it required minimal gear, with a 5 watt dual band HT and a rubber duck often being sufficient to make QSO's.

15 Years Ago: Field Day results show LCARA placed 3rd amongst all 6A stations countrywide, and 3rd of all classes in Ohio.

The *PATCH* reports that at the January meeting "Pizza will be provided free [while it lasts] ...

10 Years Ago: First Class stamps for a 1 oz letter go from 46 cents to 49 cents.

Bob Liddy K8BL, continuing his story of adventures as a new ham, describes his first run in with police as an amateur, and how Jeff, WA8SAJ would get blamed for all TVI in the neighborhood.

5 Years Ago: Jim, AA8OY, reports our Field Day team placed 2nd in both Ohio and the Great Lakes Division in our 5A class, We were in the top 4% of all classes nationally.

DX Alert

by: *Jim Pyle AA8OY*



December 2023 DX Alert

XT - Burkina Faso - Harald, DF2WO, will once again operate as XT2AW from Burkina Faso. This time he will operate from December 6th to the 19th. He plans to be on SSB, CW, FT4 and FT8.

9L -Sierra Leone - Shabu, MØKRI, will be active as 9L5M from Freetown, Sierra Leone November 24-December 5. He will operate FT8, CW and SSB on 80-6M and the QO-100 satellite.

VKØ - Antarctica - VK2DJS, Dave, will be at Davis Station, Antarctica from December 2023 to November 2024. He expects to be on HF and "some 6M WSPR."

VU7- Lakshadweep Islands/VU4, Andaman and Nicobar Islands - W4VKU, Krish, plans to activate VU7 on December 4. He will be on 160-6M FT8 (MSHV, non-standard frequencies) and SSB until December 10.

VK9 - Cocos (Keeling) Island - YL2GM, Yuris, and EA5EL, Eugene, will be going to Cocos (9L5M, Sierra Leone, on air through December 5. MØKRI, Shabu, arrived in Freetown, Sierra Leone late last week. For now, he is on 10M FT8 as 9L5M and expects to be on 80-6M CW, SSB, and FT8 as he can during the day. Keeling) Island is #38 on Club Log's DXCC Most Wanted List. Using VK9CY, they plan to be on 160- 10M, with their exact operating frequencies dependent on local conditions.

3W9C, Con Son Island - SP5APW, Jacek, is heading back to Con Son Island (AS-130), Vietnam, November 30 to December 9. His 3W9C license is good for 20, 17, 15, and 10M, and 53-54 MHz on 6M. He expects to be active on SSB on HF and FT8 on 6M.

5H – Tanzania - ZS4PJV, Paul, now holds 5H3PV, and is active on SSB and FT8 on 40-10M, mostly 10M. QSL via eQSL and LoTW.

7Q – Malawi - 7Q6M, Don (K6ZO), expects to remain in Malawi until May 13, 2024.

8Q – Maldives - DK6AS, Andreas, is QRV as 8Q7XX from the Maldives. Activity so far has been reported on FT8 on 20, 12, and 10M. Length of stay is unknown.

C9 – Mozambique - OE3SEU, Eddy, is motoring through Mozambique and expects to be operating as C91SEU from multiple locations during the month of December.

Happy hunting!

Jim, AA8OY

Thanks to Weekly DX and ARRL DX

Field Day 2023 Results

Field Day participation continues to increase with 31,300 participants, up 5.2% from 2022. The total number of QSOs was down 2% to 1,249,686. 53.8% of the stations were operated from home and 28.6% were were Class A, emergency power. The remaining 18% was distributed among the remaining 67 classes. LCARA operated as 5A, temporary portable station on emergency power and finished in 9th place in class out of 87 5A stations, scoring 6,182 points.

I would like to thank those who participated in Field Day 2023 and look forward to 2024.

Jim, AA8OY
Field Day Chairman

Upcoming Contests: (from the OSJ/WA7BNM)

November 27 - December 3

+ QCX Challenge	1300Z-1400Z, Nov 27
+ QCX Challenge	1900Z-2000Z, Nov 27
+ RSGB FT4 Contest	2000Z-2130Z, Nov 27
+ QCX Challenge	0300Z-0400Z, Nov 28
+ UKEICC 80m Contest	2000Z-2100Z, Nov 29
+ SEC QSO Party	2100Z, Dec 1 to 2100Z, Dec 2
+ ARRL 160-Meter Contest	2200Z, Dec 1 to 1600Z, Dec 3
+ Kalbar Contest	0000Z, Dec 2 to 2359Z, Dec

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+ UFT Meeting	0500Z-0800Z, Dec 2 and 1500Z- 1800Z, Dec 2 and 0700Z- 1000Z, Dec 3
+ Wake-Up! QRP Sprint	0600Z-0629Z, Dec 2 and 0630Z- 0659Z, Dec 2 and 0700Z- 0729Z, Dec 2 and 0730Z- 0800Z, Dec 2
+ PRO CW Contest	1200Z, Dec 2 to 1159Z, Dec 3
+ INORC Contest	1400Z, Dec 2 to 1359Z, Dec 3
+ FT Roundup	1800Z, Dec 2 to 2359Z, Dec 3
December 4 - 10	
+ ARS Spartan Sprint	0200Z-0400Z, Dec 5
+ VHF-UHF FT8 Activity Contest	1700Z-2100Z, Dec 6
+ QRP ARCI Topband Sprint	0000Z-0300Z, Dec 7
+ Walk for the Bacon QRP Contest	0000Z-0100Z, Dec 7 and 0200Z-

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	0300Z, Dec 8
	1800Z-1900Z, Dec 7 (CW) and 1900Z- 2000Z, Dec 7 (SSB) and 2000Z- 2100Z, Dec 7 (FM) and 2100Z- 2200Z, Dec 7 (Dig)
± NRAU 10m Activity Contest	
	2000Z-2200Z, Dec 7
± SKCC Sprint Europe	
	0000Z, Dec 9 to 2400Z, Dec 10
± ARRL 10-Meter Contest	
	0000Z, Dec 9 to 2359Z, Dec 11
± PODXS 070 Club Triple Play Low Band Sprint	
	0600Z, Dec 9 to 1800Z, Dec 10
± TRC Digi Contest	
	1200Z, Dec 9 to 2400Z, Dec 10
± SKCC Weekend Sprintathon	
	1300Z, Dec 9 to 1300Z, Dec 10
± ARI 40/80 Contest	
	1600Z, Dec 9 to 1559Z, Dec 10
± International Naval Contest	
	2000Z-2300Z, Dec 10
± QRP ARCI Holiday Spirits Sprint	

December 11 - 17

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+ 4 States QRP Group Second Sunday Sprint	0100Z-0300Z, Dec 11
+ NAQCC CW Sprint	0130Z-0330Z, Dec 13
+ VHF-UHF FT8 Activity Contest	1700Z-2100Z, Dec 13
+ EACW Meeting	1900Z-2000Z, Dec 14
+ AGB-Party Contest	1600Z-1700Z, Dec 15
+ Russian 160-Meter Contest	1800Z-2200Z, Dec 15
+ Feld Hell Sprint	0000Z-2359Z, Dec 16
+ OK DX RTTY Contest	0000Z-2400Z, Dec 16
+ Croatian DX Contest	1400Z, Dec 16 to 1400Z, Dec 17
+ ARRL Rookie Roundup, CW	1800Z-2359Z, Dec 17
+ Run for the Bacon QRP Contest	2300Z, Dec 17 to 0100Z, Dec 18
December 18 - 24	
+ NAQCC CW Sprint	0130Z-0330Z, Dec 20
+ VHF-UHF FT8 Activity Contest	1700Z-2100Z, Dec 20
+ Walk for the Bacon QRP Contest	0000Z-0100Z, Dec 21 and 0200Z- 0300Z, Dec 22
+ NTC QSO Party	1900Z-2000Z, Dec 21

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+ RAEM Contest	0000Z-1159Z, Dec 23
+ CW QRS Xmas Activity	0000Z, Dec 24 to 2359Z, Dec 31
December 25 - 31	
+ QCX Challenge	1300Z-1400Z, Dec 25
+ QCX Challenge	1900Z-2000Z, Dec 25
+ QCX Challenge	0300Z-0400Z, Dec 26
+ DARC Christmas Contest	0830Z-1059Z, Dec 26
+ SKCC Sprint	0000Z-0200Z, Dec 27
+ RAC Winter Contest	0000Z-2359Z, Dec 30
+ YOTA Contest	1200Z-2359Z, Dec 30
+ Stew Perry Topband Challenge	1500Z, Dec 30 to 1500Z, Dec 31
+ Original QRP Contest	1500Z, Dec 30 to 1500Z, Dec 31
+ Bogor Old and New Contest	0900Z-2359Z, Dec 31

Check out the WA7BNM Contest Calendar page (<https://www.contestcalendar.com/>) and CQ Magazine for more contests or more details. I also have a comprehensive list that can be imported to your calendar at www.aj8b.com/files

Upcoming Ham Fests: (from the OSJ)

12/03/2023 - [FCARC WinterFest](#)

Location: Archbold, OH

Type: ARRL Hamfest

Sponsor: Fulton County Amateur Radio Club

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

[Learn More](#)

ARRL News:

[ARRL The National Association for Amateur Radio](#)® announces the results of the 2023 ARRL Division elections.

ARRL Great Lakes Division Vice Director Scott Yonally, N8SY (2,175 votes), of Lexington, Ohio, defeated candidate Michael Kalter, W8CI (2,023 votes), for the position of Division Director. Yonally will assume the role when Director Dale Williams, WA8EFK, who has held the seat since 2014, completes his current term at the end of the year.

In the Atlantic Division, Vice Director Martin Pittinger, KB3MXM (2,801 votes), of Owings Mills, Maryland, defeated candidate Robert Weinstock, W3RQ (1,044 votes) for the seat.

In the Dakota Division, Vice Director Lynn Nelson W0ND (656 votes), of Minot, North Dakota, defeated candidate Matthew Holden, K0BBC (519 votes).

Winners will assume their roles for terms beginning January 1, 2024.

Members had the option to vote using paper or electronic ballots. The election was conducted by third party Election Services Co., of Melville, New York -- the same company that conducted ARRL elections in 2022. The tabulation was observed by Director of the ARRL Pacific Division Kristen McIntyre, K6WX, who chairs the ARRL Ethics and Elections Committee.

Those were the only contested races in this year's election cycle for Director and Vice Director. In August, the following incumbents, running unopposed in this election cycle, were [declared winners](#): Atlantic Division Director Robert Famiglio, K3RF; Dakota Division Director Bill Lippert, AC0W; Delta Division Director David Norris, K5UZ, and Vice Director Ed Hudgens, WB4RHQ; Midwest Division Director Arthur Zygielbaum, K0AIZ, and Vice Director David Propper, K2DP.

In the Great Lakes Division, Roy Hook, W8REH, will be the next Vice Director. Hook ran unopposed for the seat vacated by Director-elect Yonally.

ARRL is governed by an all-volunteer Board of Directors. Elections are held for five of the 15 ARRL Divisions each year, for terms of 3 years.

[The K7RA Solar Update](#)



Solar activity really picked up in the past few days, with three new sunspot groups on November 17, 18 and 19.

[Read More](#)

Ohio Section News:

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

Ham Radio Trivia Quiz (Answers on page 27)

In electronics, "rectification" means:

- A: To convert AC to DC
- B: To convert DC to AC
- C: To force a circuit to reach resonance
- D: To solve a problem with any given circuit

The equivalent value of inductance for three 10 microHenry coils connected in parallel is:

- A: 300 Microhenries
- B: 103 Microhenries
- C: 30 Microhenries
- D: 3.33 Microhenries

An RF voltage amplifier, as opposed to an RF power amplifier usually employs:

- A: Class C bias
- B: Class A bias
- C: Saturation bias
- D: Zero bias

Who developed the first FM radio?

- A: Aleksandr Popov
- B: Michael Faraday
- C: Edwin Armstrong
- D: David Sarnoff



VE Testing Sessions HAM EXAMS

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

2023

Saturday, December 2nd

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

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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..

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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 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 **December 19th**. 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.

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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

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)

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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

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

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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



December 2023

Sun.	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.
					1	2 V E Testing @ 12 noon
3 First Sunday of Advent	4 LC ARES Net. 7:30pm	5	6 LCARA Meeting 7:30pm	7 2 Mtr. Net 7:00pm	8	9
10	11 LC ARES Net 7:30pm	12	13 LCARA Board Mtg. 7:30pm 10 Mtr. Net 8:30pm	14 2 Mtr. Net 7:00pm	15	16
17	18 LC ARES Net 7:30pm	19 3 RD Tuesday Breakfast	20 10 Mtr. Net 8:30pm	21 2 Mtr. Net 7:00pm	22	23
24 Christmas Eve	25 Christmas Day	26	27 10 Mtr. Net 8:30pm	28 2 Mtr. Net 7:00pm	29	30
31 New Year's Eve						

QRZ Ham Radio Trivia Quiz Answers

In electronics, "rectification" means:

- A: To convert AC to DC (Correct)**
- B:** To convert DC to AC
- C:** To force a circuit to reach resonance
- D:** To solve a problem with any given circuit

The equivalent value of inductance for three 10 micro-Henry coils connected in parallel is:

- A:** 300 micro-henries
- B:** 103 micro-henries
- C:** 30 micro-henries
- D: 3.33 micro-henries (Correct)**

An RF voltage amplifier, as opposed to an RF power amplifier, usually employs:

- A:** Class C bias
- B: Class A bias (Correct)**
- C:** Saturation bias
- D:** Zero bias

Who developed the first FM radio?

- A:** Aleksandr Popov
- B:** Michael Faraday
- C: Edwin Armstrong (Correct)**
- D:** David Sarnoff

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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

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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.*