



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: Bob K8QXO

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	Bob Mekinda	K8QXO
Web Master LCARA	Bill Wihebrink	N8IJG

**Our next club Meeting: March 6th
@ 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 March 6th **at UH Tri-Point Physicians Pavilion**. Enter via the doors off the north (lower) parking lot, and proceed past the elevators down the hallway to meeting room #2. Doors will be open at 6:30pm. 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.

As a friendly reminder, please submit your LCARA membership renewals. (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 for a pre-filled form.

Happy Easter everyone!

Stay safe and be well.

'73

-Ed

Membership Meeting Minutes

Membership Meeting Minutes for 2/7/2024

Board Members Present:

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

Attendees:

Ed KB8BKE	Tom KE8HJL
Joe N8JKO	Jim AA8OY
Bob W2THU	Don WA8TWM
Larry WB8PHI	Cal W8BZP
Bill N8WCL	Scot N8SY
Mike WB8ZGH	Bill N8IJG
Paul KE8PP	Marty KE8QWI
Neal NFIX	Greg KE8WZT
Bob K8QXO	Bob N8KBX
Chris KE8VRN	Evan W8LSQ

President: Ed KB8BKE

- The meeting was called to order at 7:30 am and was held at Tri-Point Physicians Pavilion.
- The minutes from the January meeting were approved.

Member At Large: Joe (N8IKO)

- No luck getting additional speakers
- Upcoming speakers – Joe is planning on doing NVIS in April
- We are looking for someone to present on 3 D Printing

New Business:

- Joe encouraged people to post to the club's Facebook Page.
- If you want a ham clock –Innovoro Quattro \$29 0– a program that shows you the location of the sun and propagation information

Radio / Repeaters: Bill N8IJG:

- The repeaters are working well.

Secretary Report: Tom (KE8HJL)

- Nothing to Report

Treasurer Report: Ed (KB8KBE):

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- We had 5 members sign up via credit card. We also had 1 new member a packet will be going out shortly. Membership currently at 44

Sunshine: Bob K8QXO

- No Report

DX Report: Jim (AA80Y)

- See Jim's Report

Public Service: Mike (WB8ZGH)

Upcoming events:

- The ARES District 10 Conference will be held on February 17th, there will be 4 presenters there are 78 people registered
- Operators needed to sign up for the eclipse on April 8th – We will be manning the Lake County EOC, Parks and hospitals in the area.
- NVIS Day will be in April probably at Garfield Historical Center

Historical Society: Bob K8QXO:

- Nothing to report.

ARRL Liaison: Bob (W2THU):

- Nothing to Report

Ohio Legislative Liaison: Bob (W2THU)

- Nothing to Report

VE Testing: Don (WA8TWM)

- Nothing to Report

ARES: Joseph (N8JKO).

- 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)

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 - \$ 20 –

Meeting adjourned at: 8:03 p.m.

Tom (KE8HJL)



Sunshine Report:

by: Bob Mekinda K8QXO

No Report

Backscatter for February & March 2024

by: *Scott Farnham KO8O*

LCARA Historian



BACKSCATTER (February)

978 Years Ago: Global cooling. The weather turns especially cold throughout Europe. Monks note in the Anglo-Saxon Chronicle that "no man alive...could remember so severe a winter." This is the first known record of the beginning of the 200 year period of exceptional cold, known as the "Little Ice Age."

145 Years Ago: Edison who? The first practical incandescent light bulb was demonstrated by Joseph W. Swan in Newcastle upon Tyne, England. Swan soon established the world's first electric light bulb factory in the western suburbs of Newcastle, and later Swan's bulbs were used to light up Mosley Street in the Newcastle city centre, the first street in the world to be lit by electric light.

127 Years Ago: Politicians at work. The Indiana State legislature passed Bill No.246 defining pi as 3.2 exactly. It was introduced by Representative Taylor I. Record, a farmer and lumber merchant, on behalf of a mathematical hobbyist, Dr. Edwin J. Goodwin, M.D. Its inaccuracy was soon recognized by Clarence A. Waldo, mathematics professor at Purdue University, who advised the law makers, who indefinitely postponed the bill.

70 Years Ago: NBC airs the first national color TV broadcast, the Tournament of Roses parade, weeks after FCC approval of the standard for color broadcasting.

52 Years Ago: The first scientific hand-held calculator, named the HP-35 since it had 35 keys, is introduced by Hewlett-Packard. Priced at \$395 (\$3045 in 2024 dollars), it was the first hand-held calculator able to perform logarithmic and trigonometric functions with one keystroke.

45 Years Ago: LCARA tours the recently completed Ohio Bell Electronic Switching System office, on South Street in Painesville.

The FAA approves the club's antenna request, and the new Phelps Dodge 340 four dipole array sits majestically atop its tower on Lake East Hospital.

35 Years Ago: Ken, N8EIH, reports the McDonald's Painesville drive-up window frequency is 154.57MHz.

With solar cycle 22 nearing its peak, flux levels over 250 are reported, assisting several members with the new single band DXCC awards, which include 10 and 75 meters.

30 Years Ago: Bob, K8BL, reports on rumors the FCC may let us choose our calls. Last available for a short period in the late '70's, folks are talking about simplifying their call by dropping the last letter. Bob ponders becoming K8B, and I could become KO8 !!

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A new country is created. Eritrea brings the DXCC countries list to 319. A special award is suggested for anyone who knows how to pronounce it correctly.

Ken, WT8F, demonstrates a new program, DX Base, which allows not only packet cluster operation and logging, but also tracks DXCC progress, checks packet spots for worked/confirmed status, shows beam headings, prints labels, connects with HF radios, and sends Morse from the keyboard. Ah, the wonders of modern technology.

25 Years Ago: Riley Hollingsworth, K4ZDH, head of amateur radio enforcement for the FCC since last Fall, shows up unexpectedly on 3.894 MHz, a frequency considered to be one of the hot spots the FCC wants cooled down. Hollingsworth said he broke in on an argument that was growing increasingly nasty in an effort to settle things down. He then remained on frequency to discuss FCC enforcement with those hams who were interested. But not everyone wanted to hear what he had to say, and there was a serious effort made by some to silence K4ZDH, with jamming and a number of rude and lewd comments while Hollingsworth was on the air. None-the-less, Hollingsworth told those involved to keep in touch if they have enforcement problems, and gave out his e-mail; rholling@fcc.gov

20 Years Ago: The ARRL asks the FCC to create a new entry level no-code amateur license to include limited HF phone privileges plus VHF and UHF. Also proposed is consolidation of all current licenses into three classes, retaining code at 5WPM for only the highest class. ARRL First VP Joel Harrison says "Change in the Amateur ... license requirements ... when Morse is involved, has always been emotional.

Bill Chaikin, KA8VIT describes ACARS (Aircraft Communications Addressing and Reporting System), a 2400 baud AM packet network for aircraft, operating principally on 130.450 MHz

15 Years Ago: The February program is Bill Chaikin, KA8VIT describing the USS Cod and its communications systems.

Desecheo, KP5, is scheduled to be on the air mid-February with eight HF stations plus 6 meters. It is a .6 square mile island 13 miles west of Puerto Rico, administered by the US Fish & Wildlife Service. Until 1952 the island was used as a bombing range, and although diving is permitted around the island, the refuge is closed to the public due to the presence of unexploded military ordnance. Trespassers are subject to arrest, and the Fish & Wildlife Service has not approved a DXpedition there in fifteen years.

10 Years Ago: New LCARA President Ron, KC8BTN states the club repeater N8BC's country count has increased by one with the addition of an Echolink QSO with Indonesia, YB.

Matt W8DEC is teaching a Technician class, held at Lakeland.

5 Years Ago: Axel, K8AXX hosts a winter field day event. Seven intrepid operators make 257 contacts, for a score of 3042 including the non-commercial power bonus and cw multiplier

BACKSCATTER (March)

74 Years Ago: Silly Putty is introduced by Peter Hodgson, a marketing consultant, who packaged one-ounce portions of the rubber-like material in plastic eggs. It could be stretched, rolled into a bouncing ball, or used to transfer colored ink from newsprint. It was originally discovered in 1943 by James Wright at General Electric Laboratories by combining silicone oil and boric acid. He had been researching methods of making synthetic rubber, and since it had no commercial application, he passed it around as a curiosity. However, Hodgson

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realized its potential for entertainment and coined its name for marketing it as a toy, making him a millionaire. Since 1950, more than 300 million eggs of Silly Putty, approximately 4,500 tons have been sold.

53 Years Ago: Direct-dial transatlantic telephone service is offered for calls between the US and Britain by the collaboration of AT&T and the British Post Office. The new service was the first major intercontinental dialing system, using Intelsat III satellites, handling 1,200 telephone circuits per satellite. Five of these 322-lb satellites had been put in service in synchronous orbits over the Atlantic, Pacific and Indian Oceans in 1968-70.

45 Years Ago: The ARRL petitions the FCC to allow Novices full privileges on 220-225 MHz

The FCC reports there are 14.3 million CB licenses, up 16% over the previous year. Amateurs number 357 thousand, up 8%

The first Lake County Hamfest is planned for April 1st, at the Lake County Armory. Tickets are only \$2. Perhaps due to the date, the Hamfest logo is an electric fish.

40 Years Ago: After considerable effort, LCARA achieves the coveted 501.c.3 tax status. Not only does the club not pay taxes, but donations to the club are tax deductible, and LCARA qualifies for reduced mailing rates for newsletters and ham fest flyers.

Shirley, N8BGL reports rooms are available for the Dayton Hamfest, at the Holiday Inn Englewood for \$39 per night.

35 Years Ago: Bob Liddy, K8BL, reports on difficulties encountered in attempting to work a New One. Hot on the trail of VK9ZM, Mellish Reef, and running full power, the shack lights go out, the radios go dark, and even the keyer dies. Back on the air some minutes later, with the help of multiple extension cords, the frequency has become a zoo, with everyone else in the world working Mellish, except K8BL. The problem? A loose nut. Ask Bob for details.

30 Years Ago: Life gets more complex. Ma Bell announces it will soon be necessary to dial the area code on all long distance calls, even within one's own area code.

25 Years Ago: Morse code, RIP. Nearly 100 years after the first maritime distress call, when a lightship's crew saw the steamship Elbe run aground off the coast of Dover England, the International Maritime Organization replaces CW with the Global Maritime Distress and Safety System. This satellite based system is mandatory for all international freighters over 300 gross tons, all passenger vessels, and all self-propelled drilling units. Only coastal freighters, most fishing boats, and pleasure craft are exempt.

The ARRL considers, and rejects, the proposal to change its name to the American Amateur Radio League.

JY1, SK.

20 Years Ago: The FCC unanimously approves a Notice of Proposed Rule Making (NPRM) to deploy Broadband over Power Lines (BPL). This is despite 5200 comments, the vast majority negative, elicited by an earlier Notice of Inquiry. FCC Chairman Michael Powell calls BPL "tremendously exciting," although conceding that BPL has "a long way to go." The battle continues ten years later.

15 Years Ago: LCARA member Sean O'Neil, KD8KDB is interviewed in "The Patch". When asked about his dream ham shack, he replies "as for where this would be – I would settle for anywhere warm at the moment."

10 Years Ago: The Patch reports that rumor has it that both Punxsutawney Phil and Buckeye Chuck have contracts out on them due to predictions of a longer winter.

DX Alert

by: *Jim Pyle AA8OY*



DX Alert, March 2024

ARRL DX SSB Contest, starting March 1, at 7:00 PM local time (0 GMT) and finishing March 3 at 7:00 PM local time (0 GMT). This is a great contest for building one's country count. In a nutshell, US states and Canadian provinces work the world. North America gives a "59 state" as an exchange, "59 OHIO" The rest of the world gives us "59 Power" "59 100". With DX conditions being very good, don't miss this opportunity!

3B8 – Mauritius- OH1NA, Timo, will be active as 3B8/OH1NA February 25-March 7. He will operate CW, SSB, and FT8/FT4.

5H – Tanzania- GØVJG, Nobby, will be active as 5H3VJG from Zanzibar Island (AF-032), Tanzania March 7-20. He will operate mainly SSB with some CW and FT8,

PJ7 – Saint Maarten - KC9EE, Gary, will be active again as PJ7EE from Sint Maarten February 21-March 6. He will operate mainly CW, with SSB during the ARRL International DX Contest, SSB.

V4 – St. Kitts and Nevis - K1ZN, Jeff, is heading to Calypso Bay, St. Kitts for a week- long DX holiday February 27-March 6. He will be operating as V44/K1ZN from the V47JA rental station.

ZB2 – Gibraltar – MØHXC - Ferdinand, has been in Gibraltar since September 2023 and expects to be there for at least three years. He has the callsign ZB2KX, and plans to be on the air on Wednesdays around 1900 UTC.

3B9 - Rodrigues Island - Richard, HB9FHV is QRV as 3B9/HB9FHV and has been active on 20 meters using SSB around 1630z.

4L – Georgia - Look for 4L5O to be a Single Op/High Power entry in the CQ World Wide 160 Meter SSB contest.

5A – Libya - Abubaker, 5A1AL has been active on 10 meters using FT8 around 0830 and 0930z.

FW – Wallis and Fortuna Islands - LZ1GC and LZ5QZ will be operating as FW8GC and TX8GC, respectively, from Wallis Island, IOTA OC-054, until March 9. Activity is on 160 to 10 meters using CW, SSB, RTTY, FT8, and FT4

H40 - Temotu Province - A large group of operators are operating as H40WA from Pigeon Island, IOTA OC-065, until March 7. Activity is on 160 to 6 meters using CW, SSB, and FT8, with five to six stations active.

XV – Viet Nam - Gran, XV9G has been active on 12 meters using CW around 1200z.

Happy hunting!
Jim, AA8OY
Thanks to ARRL DX

Upcoming Contests: (from the OSJ)

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

ARRL Inter. DX Contest, SSB	3/2/2024	3/3/2024
YB DX RTTY Contest	3/9/2024	
Idaho QSOP	3/9/2024	3/10/2024
Oklahoma QSOP	3/9/2024	3/10/2024
Wisconsin QSOP	3/10/2024	3/11/2024
Virginia QSOP	3/16/2024	3/17/2024
CQ WW WPX Contest, SSB	3/30/2024	3/31/2024

Upcoming Ham Fests: (from the OSJ)

Ohio Hamfests

2024

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](#)

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](#)

ARRL News:

[Amateur Radio Operators Needed for Help with Solar Eclipse Project](#)

The [Case Amateur Radio Club, W8EDU](#), the club station at Case Western Reserve University in Cleveland, Ohio, is asking for amateur radio operators to help with a research project centered around the April 8, 2024, solar eclipse. W8EDU club member Adam Goodman, W7OKE, said the project centers around studying the effects of the eclipse on propagation to better understand the recombination time of the ionosphere.

"To do this, we are recruiting North American amateur stations interested in recording the Canadian time standard station CHU (Canada's WWV) for two weeks surrounding the eclipse," added Goodman. "Anyone with a [KiwiSDR](#) or a rig that can interface with analysis/recording software such as [Fldigi](#) is encouraged to reach out to us to participate."

W8EDU club member and project software manager Maris Usis, KE8TXG, said that while the software is simple to use, there is some detailed work involved. "We can help make it easier and there are good online instructions as well," said Usis.

All of the participation details are on the club's website at <https://w8edu.wordpress.com/chu-eclipse-data-collection/>.

W8EDU club faculty advisor David Kazdan, AD8Y, said the research project has received positive attention from the [ARRL Collegiate Amateur Radio Program](#) community, the Ham Radio Science Citizen Investigation ([HamSCI](#)) community, and Case Western Reserve University's engineering deans. "It is already a truly international effort, and we are collaborating with more than 20 stations across the continent, from collegiate and high school stations, to a representative from the Radio Amateurs of Canada, to a station in Mexico," said Kazdan. The [2024 solar eclipse](#) will over Mexico, the United States, and Canada. ARRL is a partner with HamSCI to help promote this opportunity for radio amateurs to participate in an active science experiment, through the Solar Eclipse QSO Party.

[The K7RA Solar Update](#)



A solar filament has erupted from the northwest solar quadrant and a component of the predominately westward associated CME is expected to arrive at the Earth during the second half of 24-Feb. [Read More](#)

[Highlights from 2024 Orlando HamCation](#)



Warm weather greeted the crowds of radio amateurs who attended the 2024 Orlando HamCation® from February 9 - 11. [Read More](#)

[Errata to the 2024 - 2028 Amateur Extra-Class Question Pool Released](#)



The National Conference of Volunteer Examiner Coordinators (NCVEC) Question Pool Committee (QPC) has released errata for the new 2024 - 2028 Element 4 Extra Class Question Pool, which goes into effect on July 1. [Read More](#)

Ham Radio Trivia Quiz (Answers on page 22)

The outside receiving antenna-wire for early radio sets was referred to as:

- A: The parallax.
- B: The aerial.
- C: The ground-plane.
- D: The feed-back loop.

When was the Morse code developed?

- A: 1837
- B: 1838
- C: 1839
- D: 1840

What was the first commercial radio station to go on the air in the United States?

- A: WLS Chicago, IL
- B: KFBK Sacramento, CA
- C: WJR Detroit, MI
- D: KDKA Pittsburgh, PA

Radio Americas on Swan Island in the Western Carribean Sea, a defunct CIA AM Broadcast station, operated on which frequency?

- A: 1060 Khz
- B: 1160 Khz
- C: 1610 Khz
- D: 610 Khz



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, 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 March 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.

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

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

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



March 2024

Sun.	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.
					1	2
3	4 ARES Net. 7:30pm	5	6 Club Meeting 7:30pm	7 2 Mtr. Net 7:00pm	8	9
10 DST Begins Spring Forward	11 ARES Net 7:30pm	12	13 Board Mtg. 7:30pm 10 Mtr. Net 8:30pm	14 2 Mtr. Net 7:00pm	15	16
17 St Patrick's Day	18 ARES Net 7:30pm	19 3 RD Tuesday Breakfast Election Day	20 10 Mtr. Net 8:30pm	21 2 Mtr. Net 7:00pm	22	23
24 Palm Sunday	25 ARES Net. 7:30pm	26	27 10 Mtr. Net 8:30pm	28 2 Mtr. Net 7:00pm	29 Good Friday	30
31 Easter Sunday						

QRZ Ham Radio Trivia Quiz Answers

The outside receiving antenna-wire for early radio sets was referred to as:

- A: The parallax.
- B: The aerial.(Correct)**
- C: The ground-plane.
- D: The feed-back loop.

When was the Morse code developed?

- A: 1837 (Correct)**
- B: 1838
- C: 1839
- D: 1840

What was the first commercial radio station to go on the air in the United States?

- A: WLS Chicago, IL
- B: KFBK Sacramento, CA
- C: WJR Detroit, MI
- D: KDKA Pittsburgh, PA (Correct)**

Radio Americas on Swan Island in the Western Carribean Sea, a defunct CIA AM Broadcast station, operated on which frequency?

- A: 1060 Khz
- B: 1160 KHz (Correct)**
- C: 1610 Khz
- D: 610 Khz

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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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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.*