



## The LCARA Patch



10 METER ROUNDTABLE

WEDNESDAY @ 20:30 HRS

28.450 MHz

[www.lcara.org](http://www.lcara.org)

<https://groups.io/g/lcarapatch>

LCARA TWO METER NET

THURSDAY @ 19:00 HRS

147.210/R - PL 110.9



### LCARA Board

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

### Patch Staff

Editor: KB8BKE  
DX: AA8OY  
History: KO8O  
Sunshine:

### Standing Committees

ARES/Public Service	Mike Goffos	WB8ZGH
Contest	Bob Liddy	K8BL
DX	Jim Pyle	AA8OY
Field Day Chair	Jim Pyle	AA8OY
Program Director	Joe Koskovics	N8JKO
LCHS Liaison	Bob Mekinda	K8QXO
History	Scott Farnham	KO8O
Publicity	Bob Mekinda	K8QXO
Repeater	N8IJG - KB8BKE	
Sunshine	Open	
Trustee, N8BC	Bob Liddy	K8BL
Web Master LCARA	Bill Wihebrink	N8IJG

***Our next club Meeting: March 2nd***

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## Message from the President

Greetings, fellow travelers

*Our next club meeting is March 2nd and will be online. Remember the cutoff for existing members to renew is March 15<sup>th</sup>.*

*Fair warning --- on March 13, we return to Daylight Savings Time.*

*The week of the 20th is NWS's Severe Weather and Flood Awareness Week. As part of that activity, on March 23<sup>rd</sup>, there will be a statewide Tornado drill at 09:50 am. There will be some area Sky Warn check in nets activated to allow anyone interested an opportunity to participate.*

*Looking ahead to next month, our public service season for 2022 will kick off with an operating event on April 16<sup>th</sup>, at the James A. Garfield Home to help celebrate National Parks Week, and we will be at LCHS on the 23<sup>rd</sup> for NVIS Day. Stop by to operate or just say hello.*

*We are always seeking presenters for our meetings. If you would like to suggest someone, or a topic you believe would be of interest to the group, or would like to give a talk yourself, please feel free to reach out to any board member. The same goes article submissions and suggestions for this newsletter.*

*LCARA sponsors many activities throughout the year, primarily focused on public service and education, to promote our hobby and we are always looking for volunteers to help. Please consider participating at one or more of our club events. Check our website "Events" tab for a listing (updated as dates are confirmed. Contact myself, Mike or any board member if you are interested or for more information.*

. Please stay safe and be well

'73

-Ed



## Membership Meeting Minutes for February 2022

### Board Members Present:

KB8BKE – Ed Kopcak, President / Treasurer    N8JKO – Joe Koskovics, Director-at-Large  
KE8HJL – Tom Revolinsky – Secretary.

### Attendees:

Ed KB8BKE	Jeff WA8SAJ
Neal NF1X	Scott# N8SY
Mike WB8ZGH	Cal W8BZP
Larry WB8PHI	Don WA8TWM
Bob W2THU	Tom KE8HJL
Jim AA8OY	Paul W8PJW
Bill N8WCL	Joe N8JKO
Ron NU8N	Jeff K4DKW
Cathie AB8GV	Bob N8KBX
Jack KB8OF	Rick W8QL
Nathaniel W1OLE	

### Meeting Minutes:

- Meeting called to order by Ed (KB8BKE) at 7:31 p.m.
- This meeting took place as an online membership meeting using the Zoom platform.
- **President** – Ed (KB8BKE) mentioned:
  - Jeff WA8SAJ – Gave a presentation on how to replace the battery on an ICOM 7300. It is a tiny 3v, +12 VDC which powers the internal clock. He replaced it with a 2032 3v battery in a prewired holder and installed a diode to prevent charging.
  - Jeff WA8SAJ – also updated his Emergency Generator Power presentation to include solar panels to charge his batteries.
  - Perkins Breakfast (700 Mentor Ave, Painesville, OH 44077) on February 15<sup>th</sup> @ 8 am. Reservations not required
- Additions and/or Corrections to the Patch: There are no additions/corrections to the Patch. A motion was made to accept the minutes as presented. The motion passed.
- **Treasurer Report:** ED (KB8KBE)  
Provided a Treasurer's Report (with highlights). We have 40% of renewals.
- **Secretary Report:** Nothing reported
- **Sunshine:** Nothing reported

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- **DX:** Jim (AA8OY) reported:

DX Report:

KC4 – Antarctica - At the KC4USV station, Christopher, W2RTO, is the station custodian until the end of February He will be operating FT8 mode.

KC4 – Antarctica - Michael, KC4/N4IFD, says he plans to only do FT8 during his time ashore from a cruise ship, maybe a total of four hours over six days he's there, starting about February 17, ice, wind, and seas permitting.

5B – Cyprus - DK6SP, Philipp, is moving to Cyprus temporarily and plans to be QRV as 5B4AQC in his spare time between January 27 and July 27.

A9 – Bahrain - BARS, the Bahrain Amateur Radio Society, will be on the air to highlight “Bahrain Sports Day,” call sign A91SD, February 3-9.

P4 – Aruba - K3DMG, Lee is back on Aruba and QRV as P4/K3DMG for “much of the winter”. He will be there until the end of March. Lee will be operating casually with an emphasis on CW, RTTY and digital modes.

Z2 - Zimbabwe - DJ7TF and DL7BO, call signs Z21A and Z22O, will go to Harare, February 3-20. They're planning 160-10 CW, SSB and FT8/4,

Z8 - South Sudan - YI1DZ, Diya, is again in Juba, call sign Z81D. He has been active on 40-10M FT8

Field Day is June 25 and June 26. We will be at the Lake County Historical Center. We will have access to the house and the field where we set up the trailer.

- **Events Public Service:** Mike WB8ZGH
  - National Public Lands Day - Garfield Home – April 16<sup>th</sup>
  - NVIS is April 13<sup>th</sup> at History Center
  - Mardi Gras Parade – July 1<sup>st</sup>
- **VE Testing:** Is this Saturday February 5th at Kirkland Library at noon for all license classes.
- **Ohio Legislative Liaison:** Bob W2THU: Nothing has changed on the status of the texting bill. The Ham Radio exemption is in the bill.
- **ARES:** Scott# N8SY has been placed on the Emergency Communications Field Services Committee to improve communications between Section Managers and Clubs.
- **Nets:**

Monday: 7:30 pm. – Lake County ARES Training Net – 147.210 (pl 110.9) – (b/u 147.255 – no pl)  
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)

- **Lake County History Center:** Ed (KB8BKE) reported:

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Nothing to report

- **Director-at-Large Report:** Joe (N8JKO) reported: that the pavilion is reserved for this summer. He is looking for additional people to give presentations.

Meeting adjourned at: 8:01 p.m.

Tom (KE8HJL)

###



## Sunshine Report

Nothing to report

## Backscatter for March 2022

by: *Scott Farnham KO8O*

*LCARA Historian*



### BACKSCATTER

**87 Years Ago:** Radar is demonstrated for the British Air Ministry, a just-in-time invention that helped save Great Britain from defeat in World War II.

Radar (RAdio Detection And Ranging) was developed over many years, but it was Robert Watson-Watt, a Scottish physicist looking for a reliable method of locating approaching thunderstorms, who designed the first radar. However, he realized the radio waves could be used to detect more than storms.

A Royal Air Force bomber was used for a War Ministry demonstration. Three times the plane passed overhead and three times the main beam of a BBC short-wave radio transmitter picked up reflected signals.

Impressed, the air ministers embraced the new technology and by September 1939, when war broke out in Europe, the British had a network of radar installations covering the English Channel and North Sea coasts.

Hitler's strategic aerial onslaught, meant to clear the skies over the Channel and southeastern England preparatory to an invasion of the British Isles, might have succeeded if not for radar. The RAF was outnumbered by the Luftwaffe, but with radar providing an early-warning system, RAF pilots could meet incoming enemy formations in a matter of minutes. As the German fighters ran low on fuel and were forced to turn back, the Spitfires and Hurricanes could pick off the German bombers as they moved deeper into England.

The battle peaked during September and October 1940. The Germans, discouraged by their high losses, gradually tapered off their attacks, then abandoned them altogether when Hitler turned his attention to Russia.

The Germans soon developed their own radar and used it effectively during the Allied air raids over occupied Europe and the Reich.

**40 Years Ago:** The FCC issues a NPRM to extend the 20 meter phone sub-band down to 14.150 MHz from the current 14.200 edge. It is proposed this 50 KHz be available to all, General class and higher.

**35 Years Ago:** The US Department of Commerce Secretary, Malcolm Baldrige, stating that Japan has been dumping RAM chips on the US market, slaps a stiff tariff on computer circuit imports from Japan. "At least six US plants have been shut down in the past year within the semiconductor industry and employment in the industry has dropped 20%" he says.

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**30 Years Ago:** New board officers are:  
President: N8LXS, Bruce  
Vice Pres: KE8TI, Bruce  
Treasurer: N8JNB, Judy  
Secretary: WA8HAR, Rusty  
Director: NX8R, Dan

The "Good Ducky" award goes to KB8AST, Bob, for braving a cold basement to relay traffic during the Winter Rally.

**25 Years Ago:** The monthly crossword puzzle by W8AEB includes:  
1 Down: LCARA's Puussar  
13 Across: EF Johnson xmitter (six characters).

The upcoming ARRL WRC-99 planning committee will consider the elimination of the Novice license, creation of a new intermediate license to replace Tech+, and expand HF privileges for General class and higher.

The VK0IR Heard Island dX-pedition sets new records for the number of contacts, 80,000, and the cost, \$320,000.

**20 Years Ago:** SAVI Technology proposes to the FCC that they be allowed to manufacture and sell RFID tags to operate between 425 and 435 MHz

Radio Officer Eric, KF8YK discusses the recent linkage of the repeater to the internet. After much discussion, the club narrowly votes to turn the link off.

**15 Years Ago:** George, N8GB restarts the 10 Meter Net. 28.450 MHz at 8:30 PM on Wednesdays.

The Patch goes electronic. Paper Patches are no longer available

Pete, N8PB writes a comprehensive article for The Patch on Echolink which "permits mobile and portable stations to interconnect to thousands of worldwide amateur repeaters.

**10 Years Ago:** Five years later, Pres Bob, K8QXO writes about the "great deal of discussion on our website of IRLP/Echolink". VP Vance, KA8YHZ chairs the March program to discuss the "Pro's & Cons".

George Bair, N8GB and Harry Stoddard, WB8BFF, SK.

**5 Years Ago:** The ARRL seeks opinions concerning possible new entry level license.

The FCC proposes "Next-Generation" broadcast television transmission standard ATSC 3.0

Jack Ballard, W8GZI, SK. Age 93.



## DX Alert

by: *Jim Pyle AA8OY*



### March 2022 DX Alert

**FG – Guadeloupe** - F1DUZ, Philippe, plans to be back until March 15, with expectations to operate in the REF SSB Contest and ARRL International DX SSB Contest.

**7Q , D6, FH – Malawi, Comoros, Mayotte** K6ZO, Don Jones, will now be in Malawi (7Q6M) from March 2-15. Next he will fly to Comoros (D60AB) on the 15th and 16th. He expects to arrive in Mayotte (FH/K6ZO) on March 18th and staying through March 23rd.

**8Q – Maldives** - OK2WX, Vladimir, and OK2WM, Karel, plan to put 8Q7WX and 8Q7WM on the air February 13 to March 8. The station will be concentrating on 160, 80 and 40 CW and SSB.

**5X – Uganda** - G3XAQ, Alan, will have 5X1XA on the air from Kampala March 7-14, CW only, 80-10M.

**JD1 – Minami Torishima** JG8NQJ/JD1, Take, departs for Minami-Torishima March 16 for a 3-month stay. In the past he has usually been found on 17M but this time may try 40, 30, 20, 15, 12, 10 and 6, probably CW and “possibly” RTTY.

**8Q – Maldives** - G0VJG, Nobby, reminds everyone he will be heading back to the Maldives on March 3rd and expects to be QRV as 8Q7CQ from Innahura Island from March 4-18. Listen for him mainly on SSB and digital on 80 through 6 meters, including 5 MHz

**EA8 – Canary Islands** - EA4NF, Philippe, is planning a FM and Linear LEO satellites DXpedition as EA8/EA4NF from Hierro Island on Mach 4, 5 and 6. He will be operating from the grids IL07 and IL17.

**PJ5 – St. Eustatius** - PJ5/K3TRM, Frank, plans to operate from the island March 6-12, 40-10 SSB, RTTY, FT8, and satellite.

**PJ7 – Saint Maarten** - PJ7AA by AA9A, Tom, will be until March 26 using CW, “some” SSB, FT8 and FT4 FH mode, 80-10M.

**TA – Turkey** - DL6RO, Rolf, will be here until March 15 and QRV as TA4/DL6RO.

**V3 – Belize** - W0BNC, Bob, plans to operate V31BN from Belize City from March 5-10. Activity will be on SSB, CW, FT8 and FT4 on 5 through 28 MHz.

**YB – Indonesia** - YE1AR, Budi, is currently QRV as YE1AR/2 from Java Island (OC-021). He plans to focus on 160, 80 and 40 meters until March 7.

Happy hunting!  
Jim, AA8OY

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### **Upcoming Contests:** (from the OSJ/WA7BNM)

Check out the WA7BNM Contest Calendar page (<https://www.contestcalendar.com/>) and CQ Magazine for more contests or more details.

You can always check the list at AJ8B.com and import it in to your calendar!

The contests in **red** are those that I plan to spend some significant participation time on. PLEASE let me know if you are working contests and how you fared.

Thanks!

Mar. 5	<b>ARRL Inter. DX Contest, SSB</b>	<a href="https://contests.arrl.org/ContestRules/DX-Rules.pdf">https://contests.arrl.org/ContestRules/DX-Rules.pdf</a>
Mar. 12	YB DX RTTY Contest	<a href="https://rtty.ybdxcontest.com/">https://rtty.ybdxcontest.com/</a>
Mar. 12	Idaho QSOP	<a href="http://www.pocatelloarc.org/idahogsoparty/">http://www.pocatelloarc.org/idahogsoparty/</a>
Mar. 12	Oklahoma QSOP	<a href="http://www.k5cm.com/okqp.htm">http://www.k5cm.com/okqp.htm</a>
Mar. 12	Wisconsin QSOP	<a href="http://mail.warac.org/wqp/wqp.htm">http://mail.warac.org/wqp/wqp.htm</a>
Mar. 19	Virginia QSOP	<a href="http://www.vaqsoparty.com/">http://www.vaqsoparty.com/</a>
Mar. 26	<b>CQ WW WPX Contest, SSB</b>	<a href="https://cqwp.com/">https://cqwp.com/</a>

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### *Ohio Hamfests*

**2022**

03/12/2022 - [MOVARC Hamfest](#)

Location: Bidwell, OH

Sponsor: Mid-Ohio Valley Amateur Radio Club

[Learn More](#)

03/13/2022 - [Winter Hamfest](#)

Type: ARRL Hamfest

Sponsor: Northern Ohio Amateur Radio Society

[Learn More](#)

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<p>03/20/2022 - <a href="#">Toledo Mobile Radio Association Hamfest</a>  Canceled</p>	<p>04/09/2022 - <a href="#">Sixty-Sixth Cuyahoga Falls Amateur Radio Club Hamfest</a>  Location: Cuyahoga Falls, OH  Sponsor: Cuyahoga Falls Amateur Radio Club, Inc.  Website: <a href="http://www.cfarc.org/hamfest.php">http://www.cfarc.org/hamfest.php</a>  <a href="#">Learn More</a></p>
<p>04/24/2022 - <a href="#">Athens Hamfest</a>  Location: Athens, OH  Sponsor: Athens County Amateur Radio Association  Website: <a href="http://www.ac-ara.org/">http://www.ac-ara.org/</a>  <a href="#">Learn More</a></p>	<p>04/25/2022 - 04/29/2022 <a href="#">RV Radio Network Spring Rally</a>  Location: Millersburg, OH  Sponsor: RV Radio Network  Website: <a href="http://rvradionetwork.com">http://rvradionetwork.com</a>  <a href="#">Learn More</a></p>
<p>05/01/2022 - <a href="#">Lucas County Amateur Radio Emergency Service Trunk Sale and Swap Meet</a>  Location: Toledo, OH  Sponsor: Lucas County Amateur Radio Emergency Service  Website: <a href="http://tinyurl.com/lcaresswap">http://tinyurl.com/lcaresswap</a>  <a href="#">Learn More</a></p>	<p>05/20-22/2022 - <a href="#">Dayton Hamvention</a>  Location: Greene County Fairgrounds, OH  Sponsor: Dayton Amateur Radio Association  Website: <a href="https://hamvention.org">https://hamvention.org</a>  <a href="#">Learn More</a></p>
<p>06/04/2022 - <a href="#">FCARC Summer Hamfest</a>  Location: Wauseon, OH  Sponsor: Fulton County Amateur Radio Club  Website: <a href="https://k8bxq.org/hamfest">https://k8bxq.org/hamfest</a>  <a href="#">Learn More</a></p>	<p>07/09/2022 - <a href="#">Mansfield Mid Summer Trunkfest</a>  Location: Mansfield, OH  Sponsor: Intercity Amateur Radio Club  Website: <a href="http://www.w8we.org">http://www.w8we.org</a>  <a href="#">Learn More</a></p>
<p>07/17/2022 - <a href="#">Van Wert Hamfest</a>  Location: Van Wert, OH  Sponsor: Van Wert Amateur Radio Club  Website: <a href="http://W8FY.ORG">http://W8FY.ORG</a>  <a href="#">Learn More</a></p>	<p>08/13/2022 - <a href="#">Cincinnati Hamfest</a>  Location: Owensville, OH  Sponsor: Milford ARC  Website: <a href="https://CincinnatiHamfest.org">https://CincinnatiHamfest.org</a>  <a href="#">Learn More</a></p>
<p>09/17/2022 - <a href="#">Mound Amateur Radio Assoc. Swap Meet</a>  Location: Miamisburg, OH  Sponsor: MARA  Website: <a href="http://W8DYY.ORG">http://W8DYY.ORG</a>  <a href="#">Learn More</a></p>	<p>09/25/2022 - <a href="#">Cleveland Hamfest</a>  Location: Berea, OH  Sponsor: Hamfest Association of Cleveland  Website: <a href="http://www.hac.org">http://www.hac.org</a>  <a href="#">Learn More</a></p>

## ARRL News

### [The K7RA Solar Update](#)



Solar activity declined recently, but we can expect an improvement soon [Read More](#)

### [Amateur Radio in Ukraine Ordered Off the Air in State of Emergency](#)



A state of emergency was declared in Ukraine just prior to the Russian military invasion. [Read More](#)

### [Crozet Island DXpedition Preparations are Moving Forward](#)



The upcoming solo DXpedition to Crozet Island, spearheaded by Thierry Mazel, F6CUK, will likely arrive on the island around Christmas. [Read More](#)

### [Tickets are on Sale for Next QSO Today Virtual Ham Expo, March 12 – 13](#)



ARRL Life Member Courtney Duncan, N5BF, will be the keynote speaker for the QSO Today Virtual Ham Expoon Saturday, March 12, in the QSO Today Virtual Ham Expo auditorium. [Read More](#)

### [FCC: Amateur Service Licensees May Not Use Radio Equipment to Commit Criminal Acts](#)



The FCC Enforcement Bureau has re-issued an earlier reminder that licensees in the Amateur Radio Service, as well as licensees and operators in the Personal Radio Services are prohibited from using their radios to commit or facilitate criminal acts. [Read More](#)

## QRZ Ham Radio Trivia Quiz

In what year did amateurs lose the use of 11 meters and subsequently, CB radio was born?

- A: 1947
- B: 1951
- C: 1958
- D: 1960

Before solid state voltage regulators tubes were used. They were filled with gas for various voltages. What are the common gases used in these tubes?

- A: Hydrogen and Nitrogen
- B: Chlorine and Nitrous oxide
- C: Helium, Argon and Neon
- D: Methane and Oxygen

Of the following choices, which method is LEAST effective in protecting amateur equipment from a lightning strike?

- A: Grounding the shield of coaxial cables were they enter the shack
- B: Connecting AC cords through a surge suppressor strip
- C: Installing lightning arrestors on coaxial cables
- D: Grounding equipment to a low resistance ground connection

Much to the dismay of many hams, lots of military surplus radio equipment operated at 115 vac, but at 400 cycles (Hz). Why didn't the US military use 60 cycles (Hz) like everyone else in the country?

- A: 400 cycles resulted in much smoother operation
- B: 400 cycles was a harmonic of the engine alternator
- C: 60 cycles caused interference in LF receivers
- D: 400 cycle transformers used less iron

Answers on page 21



## HAM EXAMS AT THE KIRTLAND LIBRARY

The Lake County Amateur Radio Association's VE Team will be holding amateur radio license exam sessions on the following dates during 2022:

Saturday, April 2	Saturday, June 4
Saturday, August 6	Saturday, October 1
Saturday, December 3	

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

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

To register, you will need a NCVEC 605 Form, which will be available at the test. If you would like to complete one ahead of time, be sure it is the Sept 2017 version or later. You can find it by Goggling "NCVEC quick-form 605" and clicking on the url for a copy of the form. 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, Google "New FRN" and follow the [apps.fcc.gov](https://apps.fcc.gov) link.

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

\*\*\*Note that sometime in early 2022, the FCC plans to begin charging \$35 to add you to the Amateur Radio database. This will be payable directly to the FCC, but the timing is unknown.



###



## 3<sup>rd</sup> Tuesday Breakfast Group 2021



Mark your calendars!

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

**Due to the recent COVID variant upsurge and restrictions being uncertain, having facial covering may or may not be required. Seating with the group is currently limited to ten guests. Overflow guests will be seated within general restaurant seating. Check our website for the latest information.**



## LCARA Board Meeting

### Board Meeting



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

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

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

**All members are welcome.**



## 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**

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

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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  
21:30 – 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) – (Echolink 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) (Echolink - use- 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  
21:30 – 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

21:30 – Tri-County Traffic Training Net – 147.015 (pl 110.9)

**###**

**Sell, Seek or Trade**

**Bill Wihebrink < 440-943-1703 >**

1) Drake TR7 –Transceiver, MS7 – Speaker, WH7 – Wattmeter, PS7- Power Supply, Filters- 1.8KC, 6 KC, 500 KC Manuals & Cables

2) Drake 4 B Line T4XB-Transmitter, R4B – Receiver, MS4 - Speaker & Power Supply, Additional crystals for bands: 10, 18, 24, 27 & 28

3) Icom 275H 100 watt all mode 2 meter transceiver

4) Yaesu FT 817ND

5) Swan 350C w/Power Supply & Cables & Manuals



Since 1978

# March 2022

Sun.	Mon.	Tue.	Wed.	Thu.	Fri.	Sat.
		1  Mardi-Gras	2 LCARA Meeting 7:00pm  Ash Wednesday	3 2 Mtr. Net 7:00pm D-10 DMR Net	4	5
6	7 LC ARES Net 7:30pm	8	9 LCARA Board Mtg. 7:30pm 10 Mtr. Net 8:30pm	10 2 Mtr. Net 7:00pm D-10 DMR Net	11	12
13  Daylight Savings Time Begins	14 LC ARES Net 7:30pm	15 3 <sup>RD</sup> Tuesday Breakfast	16 10 Mtr. Net 8:30pm	17 2 Mtr. Net 7:00pm D-10 DMR Net  St Patrick's Day	18	19
20  Severe Weather Awareness Week	21 LC ARES Net 7:30pm	22	23 Statewide Tornado Drill 9:50am 10 Mtr. Net 8:30pm	24 2 Mtr. Net 7:00pm D-10 DMR Net	25	26
27	28 LC ARES Net 7:30pm	29	30	31 2 Mtr. Net 7:00pm D-10 DMR Net		

## QRZ Ham Radio Trivia Quiz

### Answers

In what year did amateurs lose the use of 11 meters and subsequently, CB radio was born?

- A: 1947
- B: 1951
- C: 1958 **(Correct Answer)**
- D: 1960

Before solid state voltage regulators tubes were used. They were filled with gas for various voltages. What are the common gases used in these tubes?

- A: Hydrogen and Nitrogen
- B: Chlorine and Nitrous oxide
- C: Helium, Argon and Neon **(Correct Answer)**
- D: Methane and Oxygen

Of the following choices, which method is LEAST effective in protecting amateur equipment from a lightning strike?

- A: Grounding the shield of coaxial cables were they enter the shack
- B: Connecting AC cords through a surge suppressor strip **(Correct Answer)**
- C: Installing lightning arrestors on coaxial cables
- D: Grounding equipment to a low resistance ground connection

Much to the dismay of many hams, lots of military surplus radio equipment operated at 115 vac, but at 400 cycles (Hz). Why didn't the US military use 60 cycles (Hz) like everyone else in the country?

- A: 400 cycles resulted in much smoother operation
- B: 400 cycles was a harmonic of the engine alternator
- C: 60 cycles caused interference in LF receivers
- D: 400 cycle transformers used less iron **(Correct Answer)**

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

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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 44077-0868*

***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  
Echolink N9IJG/R Node #665499  
224.500 - 1.6MHz -PL tone of 141.3 Hz.  
444.650 + 5.0MHz -PL tone of 131.8 Hz.*