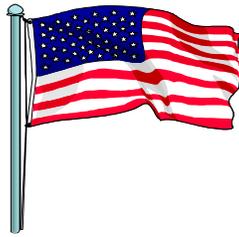


10 METER ROUNDTABLE
WEDNESDAY NIGHT @ 2030 HRS
28.450 MHZ.



LCARA TWO METER NET
THURSDAY EVENING @ 1900 HRS.



LCARA WEB SITE
www.lcara.org

The LCARA Patch

Volume 39, Issue 12

DECEMBER 2017

The PATCH

Published by the Lake County Amateur Radio Association
P O Box 868
Painesville, OH 44077-0868

The Patch Staff

Editor: Bob Mekinda K8QXO (Temp)

LCARA Officers

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Larry Caskey	K8LPC	Vice-President
Rick White	W8QL	Secretary
Ed Kopcak	KB8BKE	Treasurer
Joe Koskovics	N8JKO	Director at Large

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December's meeting is at Tri-Point Medical Center

Physicians Pavilion (Lower Level)
7590 Auburn Rd., Concord, OH 44077
<http://lakehistorycenter.org/>

Meeting @ 7:30 pm on December 6th.

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MINUTES FROM NOVEMBER 1ST MEETING

Board Members Present:

- KB8BKE – Ed - President
- K8LPC – Larry - Vice President
- W8QL – Rick - Secretary
- N8JKO – Joe - Director at Large

Meeting Minutes:

- **Ed – KB8BKE called the meeting to order at 7:30 PM. There were a total of 22 members attending.**

- The presentation for this meeting was delivered by Bob Winston – W2THU, on the Amateur Radio Parity Act. This is the most recent effort to pass legislation at the state level to allow reasonable amateur radio station antennas to be erected in C C & R's neighborhoods.
 - Ed – KB8BKE initiated a round of introductions.
 - Patch: There were no corrections.
 - Ed – KB8BKE noted there was no new correspondence.
 - Ed – KB8BKE noted the treasury was in sound.
 - Jim – AA8OY noted there were many DX opportunities in the upcoming month including but not limited to Mellish Reef, Nauru, Equatorial Guinea, and Togo. East Timor, Belize, Norfolk Island, and Guinea. He noted the CW Sweepstakes will be the November 4-5 weekend, SSB Sweepstakes will be the November 11-12, and CQWW CW contest will be the weekend after Thanksgiving. These events will be a good chance to work a lot of DX.
 - Mile – WB8ZGH noted that the last public service event of the year 2017 was the Lake Health Marathon. The next Public Service Event will be in 2018.
 - Bill - N8IJG noted all repeaters are up and running.
 - Ed – KB8BKE noted for the Sunshine Report that Tom Donelan was in the hospital but has returned home to recover.
 - Ed –KB8BKE pointed out the Christmas Dinner would be once again held at St. John Vianney's banquet room on December 15, 2017, beginning at 6:00 PM with appetizers. Beer and wine will be permitted this year. Cost is \$25.00 per person. Payment must be received no later than November 30, 2017.
 - Ed – KB8BKE requested the membership to fill the "Ham of the Year" award sheet in the rear of the room.
 - Bob – K8QXO noted that Beggars night on October 26, 2017, went very well. Our station was staffed and worked DX. It was also noted that the LCHS board was pleased with the current state of the Radio Room.
 - Ed - KB8BKE noted that there was a special award certificate being presented for working select stations in Canada for their 150th year being recognized as Canada.
 - Ed - KB8BKE also noted that the annual Holiday event at the LCHS will be held from November 30 through December 2, 2017, from 11:00 AM – 4:00 PM, daily. He would like to see the radio room staffed during this time period.
 - Bob – K8BL noted that upon visiting the Garfield House he met Todd (Garfield House representative) who was present during our 100 years of Park Service this past year. We were invited back for any Public Service or special events in the coming year.
 - Ed – KB8BKE noted that next month's meeting would be for the election of new officers.
 - Larry – WB8PHI donated a Bird Wattmeter and 1 KW slug to the club. It will be placed in the LCHS Radio Room.
 - No other business was reported.
- Meeting adjourned at 8:30 pm.

Rick – W8QL

NOVEMBER ATTENDANCE

Ed, KB8BKE, Larry, K8LPC, Joe, N8JKO, Rick, W8QL, Bob, K8QXO, Larry, WB8PHI, Bill, N8IJG, Melody, KB8QIB, Neal, NF1X, Bill, W8BBL, Jack, N8WCQ, Mike, WB8ZGH, Ron, KC8BTN, Jeff, KC8LAR, Bill, KD8HSI, Sally, N1BCF, Dick, W8GQO, Evan, W8LSQ, Jim, AA8OY, Bob, K8BL, Andy, and Bob, W2THU.

HELLO EVERYONE FROM THE PRESIDENT

A few messages of note,

Our club's Christmas Dinner is set for December 15th at the St. John Vianney Church Social Center located at 7575 Bellflower. Start time is 6:00 with dinner served at 6:30. Cost is \$ 25p/person.

Those who have not already done so, please confirm your Reservation to me soon.

It is also time to nominate your candidate for "Ham of the Year."

Forms will be on our website as well as at December's meeting at Tri-Point Physician's Pavilion. Please take a moment to consider whom you feel may be deserving and why.

Nominations are anonymous unless you choose otherwise.

Improvements continue to our "radio shack" at the Historical Society with some sprucing up courtesy of Bob Mekinda and Jim Pyle, and with thoughtful suggestions from the curator in charge of displays and décor Ms. Marion Redmond. Visitors and operators are encouraged to come on down. Let Bob or myself know if you would Like to operate as there are some need to know items.

Thank you everyone for your continued support and participation.

73 and God Bless

Ed

**From the corner office of the VICE PRESIDENT,
LARRY K8LPC**

Greetings Everyone ☺

December is here; and we've already had some snow, so I can only hope that Mother Nature has gotten it out of her system and bring us warmer WX soon.

I took a peek at the December QST and looked at our clubs Field Day scores. They are very impressive to be sure, and our Field Day Team deserves a pat on their backs and much more. I won't say anything more here; I'll let our Field Day Chairman Jim AA8OY fill us in at the meeting.

I'm happy to announce that we have another addition for our radio collection at the Historical Society. Pete W1BKZ donated a Hallicrafters SD 160. I will bring it to the meeting and show it off before it goes to its new home at the LCHS. Many thanks go out to Pete W1BKZ.

I'd like to remind everyone that the December meeting will be held at our winter location, we will be meeting in one of the meeting rooms located on the lower lever of the Tri-Point Medical Facility located at 7590 Auburn Road in the Physicians Pavilion.

Our topics in December will be a review of our budget and we will also be accepting nominations for the Board of Directors.

November 30th was our cutoff date for collecting monies for our Christmas dinner. The Christmas Dinner has been scheduled for December 15th at the Father Kline Social Center located at the St. John Vianney church. The meal will be prepared and served by Cater-To-You, the cost will be the same as last year \$25 per person. Please contact Ed KB8BKE ASAP if you have any questions.

We will continue accepting nominations for the 2017 "Ham of the Year" until December 15th. Please let us know if you feel that any one of our members has "gone the extra mile" or some other notable thing. Nomination forms are on our website WWW.LCARA.ORG, we will also have forms available at the meeting. Alternatively, you can send your nominations to our P.O. Box "The Lake County Amateur Radio Association P.O. Box 868 Painesville, Ohio 44077. You can give your nominations to any Board Member.

We are collecting 2018 dues from December through March. Please see Rick W8QL or any Board Member.

Our next VE testing session will be on Saturday December 2nd at 12 noon at the Kirtland Library. We do entry level testing and also upgrades. Please arrive a little early so you can fill out the required paperwork before the exam begins.

The December Board meeting will be at the Tri-Point Facility on Wednesday December 13th in the Board room at 7PM.

We are always looking for Guest speakers or ideas for presentations. Please contact Joe N8JKO or myself if you have any ideas.

I'm looking forward to seeing everyone at the Tri-Point Medical Facility on Wednesday December 6st at 7:30 PM, bring a friend ☺

73 de Larry Caskey K8LPC

LCARA Vice President



K8LPC@ARRL.NET

DECEMBER Backscatter 2017

113 Years Ago: John Ambrose Fleming invents the thermionic valve, the first vacuum tube, and the age of modern wireless electronics is born.

The vacuum tube, a diode (having two electrodes) has had far-reaching applications. It was standard equipment in radio receivers, radar sets, early television sets and other forms of electronic communication for at least half a century, eventually being replaced by solid-state electronics.

The principle of thermionic emission, essentially the transmission of a charged current using a heated conductor, was well-understood before Fleming incorporated it into his tube. It was first reported in 1873, and a number of other engineers and physicists, including Thomas Edison, had experimented with it. Fleming's vacuum tube, however, represented a major breakthrough in the technology.

For his work, Fleming, a British citizen, received a knighthood in 1929 and was awarded the Medal of Honor by the Institute of Radio Engineers (now the Institute of Electrical and Electronics Engineers) in 1933.

35 Years Ago: 30 meters becomes reality! Three years after approval in WARC 79, the FCC gives US hams authorization to use 10.100 to 10.150 MHz. Initially, 10.109-10.115 MHz is withheld to protect a government station at 10.112

In a burst of activity, the FCC also proposes to eliminate virtually all logging requirements.

The 1983 FCC exam schedule in Cleveland is announced: Once in February, once in June, and once in October. Otherwise, it's a trip to Buffalo or Detroit. VE's are still years in the future.

30 Years Ago: Having just installed the 440 repeater last month, funding is approved for the 220 repeater, to be installed in the spring.

25 Years Ago: YU clones! The DX Advisory Committee recommends splitting Yugoslavia into five countries: Croatia 9A, Slovenia S5, Bosnia-Herzegovina YU4, Macedonia YU5, plus keeping the entity of Yugoslavia (comprised of current YU1, 6 7 & 8). Got all that? There's a test later.

20 Years Ago: After more than a year as newsletter editor and significant Patch upgrades, Dee WIHEO hangs up his word processor. President Don WA8TWM begins the search for the next Editor.

15 Years Ago: LCARA makes plans to run a special event station (or mid-winter Field Day) at the Red Cross chapter on Bank Street in Painesville.

10 Years Ago: *Iraq, YI, becomes amateur radioactive, effective November 20th. The Real Santa Claus will be active in December, operating from, where else, the Arctic Circle. QSL via OH9SCL.*

5 Years Ago: *The annual club dinner will be held at Rider's Inn on the 15th. Matt Welch W8DEC will hold Technician classes on five nights in January. Rick White W8QL admits he still runs RTTY using a Teletype Model 28.*

LCARA Historian

Scott KO8O



DX ALERT DECEMBER 2017

5T – Mauritania -- Operators A92AA and A61M will be QRV as 5T1A and 5T1R, respectively, from Nouakchott to December 20. Activity will be on 40 to 10 meters using SSB and FT8.

9L -- Sierra Leone -- Mark, KW4XJ is QRV as 9L/KW4XJ in Freetown while on work assignment. Activity is on the HF bands in his spare time using CW and various digital modes.

ST – Sudan -- Sergey, R4PBW is QRV as ST/R4PBW from Khartoum. Activity is on the HF bands. His length of stay is unknown.

VQ -- Chagos -- Yasu, JO1GWT is QRV as VQ9KA. Activity is on 40 to 10 meters using CW and SSB. His length of stay is unknown.

4S - Sri Lanka Starting November 19th JI1SHQ, Takayuki, will be working in Colombo for the next two years. Listen for him using his new 4S7TNG call mostly on CW with some SSB on 30 and 20 Meters.

5V – Togo - N9MDH, John, is a Foreign Service Officer now working for the US State Department in Cite Ou, Lome until the end of May 2018. He will be QRV on the digital modes, "especially weak signal modes", and some SSB rag chewing as 5V1JE. He can operate on 80-10 Meters, but prefers 30 and 20 Meters.

HC8 - Galapagos Islands - The 4-man Argentinean team will be there November 29-December 8, callsign HC8LU. The callsign has been changed by the telecom authorities to HC8LUT. This will be mostly SSB, on 160-6 with some digital modes, WSJT, JT65, PSK31 *and FT8, plus LEO satellites.*

Happy hunting!



Jim, AA8OY Thanks to ARRL DX and Weekly DX

FIELD DAY RESULTS 2017

LCARA can be proud of our effort at Field Day 2017. Overall there were 3006 entries in all classes and power levels. LCARA was #34, in the top 1.1% of all entries, scoring 11,720 points. 3311 QSOs were made. In the Great Lakes Division, we placed #2 out of 272 entries. Ohio had 142 entries and we placed #2. In our class, 6A, we were #2 out of 39.

I am very pleased with the effort and results and wish to thank everyone who participated.

Jim, AA8OY,

Field Day chairman

VE TESTING IN LAKE COUNTY

Exams are held every other month.



The Lake County Amateur Radio Association will be holding its **2018** Amateur Radio license exams at **the Kirtland Library**, 9267 Chillicothe Road, on the following dates:

Saturday, February 3

Saturday, August 4

Saturday, April 7

Saturday, October 6

Saturday, June 2

Saturday,

December 1



This bi-monthly schedule is the first Saturday of every even-numbered month (e.g., February being the second month, etc.), and will be held at the Kirtland Library, 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 the 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 at www.arrl.org/files/file/ncvec605-3.pdf

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



Amateur License Renewal

I recently needed to renew my license, which made me check how much the process has changed in ten years. The answer is not much ... it can be simple and free, or cost \$8, or be a real PITA. Here's what I found:

This applies to renewals, address changes, and any other modifications to your license information, as well as printing a duplicate license. 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 renewing or changing your license information:

- 1. If you're an ARRL member (you are, aren't you ... it the best deal in amateur radio, and they need your support to defend our frequencies), fill out the NCVEC Form 605, available in pdf form from several sources if you Google "NCVEC Form 605". Then mail it with a note as to whether it's a renewal/change/duplicate 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.*
- 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 "FCC ULS Home" then click "Online Filing" which takes you to the FCC License Manager page and follow the instructions. If you have been assigned a FRN this is easy, and is what I did.*
- 5. If you don't have a FRN number, after completing 4, 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. Note that many older licensees have had FRN's automatically assigned. Check yours at "Search Licenses" at the "FCC ULS Home" page above.

6. If you're not an ARRL member, hate the internet, and too cheap to pay \$8, you can fill out a paper copy of FCC Form 605 and send it directly to the FCC. Note this **FCC** Form 605 is entirely different from the **NCVEC** Form 605 mentioned in method 1 above. You can request this form from the FCC Forms Distribution Center at 1-800-418-3676, or download it at www.fcc.gov/fcc-form-605. This method is only recommended for masochists, as the **FCC** Form 605 is a typical government form, being both long and far from intuitively obvious.

Regardless of which method you choose, your renewed license will show up in the FCC's database shortly. If the US Postal Service is not involved, it may be as quickly as one or two days. The FCC no longer mails licenses; you will have to print it out from the FCC ULS site.

Scott

KO8O

Breakfast Date For December 2017



Mark your calendar the next meeting of the Tuesday Morning Breakfast Group is at the Painesville Perkins on **Tuesday, December 19th** at 8:00 a.m. Breakfast orders start being taken at 8:30 am. This group averages 10-15 people from all counties, and it provides a great opportunity to meet other Hams, sell and trade your spare equipment. This is not a club event. Please encourage any Hams or Non-Hams, to bring your significant other, or a friend, to breakfast. It is a fun gathering.

LCARA BOARD MEETING

The December Board meeting will be at the Tri-Point facility on December 13th @ 7pm, in the Tri-Point Board room.

To find the Board room, simply continue walking past the regular meeting rooms down the hallway. The Board room is located on the left from the main elevators.

All members are invited

FOR SALE OR SWAP

EQUIPMENT FOR SALE: BY BILL, N8IJG (CALL) 440-943-1703

1. Heathkit DX-60A AM/CW Transmitter with HG-10 VFO, Asking \$150.00
2. MFJ 8268 Digital SWR/Wattmeter/Freq Readout, Asking \$140.00
3. Drake 2-B Receiver w/2-BQ Q Multiplier and Speaker, Asking \$350.00
4. Icom IC-756 Pro 3 Transceiver, Asking \$1300.00
5. Icom IC-820H 2/440 Base Dual Band Transceiver All Mode, Asking \$600.00
6. Icom IC-275H 2 meter All Mode Transceiver, Asking \$600.00
7. Icom IC-703 QRP 10 Watt Transceiver, Asking \$500.00
8. Swan 350C w/117XC PS, Asking \$300.00

Mark Your CALENDAR

FUTURE DATES

May 18, 19, & 20, 2018
 May 17, 18, & 19, 2019
 May 15, 16, & 17, 2020

hamvention.org

Jayton Amateur Radio Association

<i>Event</i>	<i>Contact</i>	<i>Location</i>	<i>Date</i>
ARES	WB8ZGH mgoffos@ymail.com	147.210 MHz	MONDAYS 19:00
Two Meter Net	Bill N8IJG n8ijg@arrl.net	147.210 MHz	THURSDAYS 19:00
Ten Meter Roundtable	WB8ZGH mgoffos@ymail.com	28.450 MHz	WEDNESDAYS 20:30
LCARA Meeting	Larry K8LPC@arrl.net	LCHS	12/6 19:30
LCARA Board Meeting	Larry K8LPC@arrl.net	Tri Point Medical	12/13 19:00
Breakfast	lcara.org	Painesville Perkins	Tuesday 12/19 08:00
Home for the Holidays	Bob K8QXO@arrl.net	LCHS	11/30-12/2 11am-4pm
VE Testing	Scott, KO8O, at 440-256-0320	Kirtland Public Library	12/02 Noon

LCARA NET INFORMATION

LAKE COUNTY ARES NET

The Net is Every Monday at 7:00pm on the 147.210 repeater. This net is open to all licensed operators; you do not need to be a member. This net is provided for operators to verify the proper operation of their equipment and verify their station's capabilities in the event of an emergency. Here is your perfect chance to be Net Control or Alternate Net Control. Step forward, no experience is necessary, everyone will help you.

LAKE COUNTY TWO METER NET

The 2 Meter Net runs weekly. Come join your fellow hams on Thursday's at 7:00 p.m. on 147.210 MHz. This is an informal net where the group can discuss any subject for the good of the group, great time to ask those questions, especially from the new operators. List your items related to ham radio that you want to sell or swap and any sunshine announcements to pass on. N8IJG brings us the ARRL News when available. Bill is always looking for Alternate Net Control Operators. Please check in.

TEN METER ROUNDTABLE

The 10 Meter Roundtable meets on Wednesday's at 8:30 p.m. on 28.450 MHz. This is an informal roundtable where the group can chat about anything that comes to mind and even correct some of the world's problems. You don't need to be a LCARA member, just have at least a Tech ticket and some 10 meter gear. The Roundtable is a good chance to meet old and maybe some new friends. This is a "Round Table" anyone can start it off on 10 meters. Any questions contact WB8ZGH.

OHIO EMERGENCY PREPAREDNESS NETS, COLUMBUS EOC



Ohio Emergency Preparedness Net, w8SGT, is on every Tuesday at 7:15 pm. Try 3.902 MHz, tune up and down the band and check in! Follow on Twitter (hashtag W8SGT) for frequency information on the 80 meter band.



Ohio Digital Emergency Net is held on Tuesdays at 8:00pm (0100 UTC).

OHDEN meets on 3585 KHz +/- USB. <http://ohden.org/>

This net is looking for all Ohio Counties to check-in. Learn as you go.

Modes: OLIVIA 8/500/PSK31 alternate, with MT63 1K for bulletins.

Frequency: 3585 KHz, 7072 KHz alternate.

MT63 2K on VHF/UHF with PSK as an alternate (Assigned locally)

REPEATERS

From "Dale's Tales", The GL Div.Dir. (WA8EFK) Newsletter 11/1/17

Even though it's the end of October, the highlight of the month had to be the Great Lakes HamCon, held on the first weekend in October. Congratulations to all the organizers and especially to the coalition of Michigan clubs who got together to sponsor the event. Great venue, excellent forums and lots of people! Looking forward to next year already.

Along with my travel to Michigan, this month included a lot of travel, most of it personal. The following reflection is not new, and not un-noticed by others. It's just to note the continuing trend of non-use of two-meter repeaters, pretty much across the country. I notice it when I'm home. I monitor the club repeater, and try to answer any call I hear. And I don't hear anyone, club member or traveler, calling.

It's the same when I'm on the road. State by state, city by city, a call on a local repeater produces only the ID. No QSOs. Where is everyone?

Of course, it's not the same as in the 1970s or 1980s. If I come across a road emergency, or have trouble myself, 911 is now the best and quickest solution. It was great that we hams stepped up when there were no such things as cell phones, and we were there with communications when it counted. We're better off now than we were, and we did a great service for the community. So naturally, with less need, fewer people monitor. But did we turn off our VHF radios for good? Yes, there are nets, and some of them are well-attended. But is once a week for a half hour good enough?

We are tying up a lot of spectrum on 144-148 MHz. Are we making good use of it? If you put a meter on your club repeater, to measure how often the repeater comes on the air (exclusive of announcements) you won't find that it gets a lot of use. There are exceptions, of course. By and large, though, we're letting a good resource go unused.

If there's a solution, it's not one that requires a big change. It's just a matter of individuals deciding that it's worth making a contact or two a day on the local repeater. When you're doing a project at your workbench, do you have a scanner or your VHF/UHF rig on? Or if you're in your car, does the music drown out the repeater (assuming that the rig might even be on)?

I like operating HF and various other modes besides FM. But the local repeaters are the easiest and quickest ways to make contacts, and sometimes provide as much interest as any other mode. What do you say?

If I key up your club's repeater while I'm driving by, will you be there?

73, Tom W8WTD Vice Director, Great Lakes Division

....From the Internet:

The ARRL has decided to shrink the dimensions of QST slightly in order to fit modern printing presses. This means approximately 1/4 off the width and height, starting in January. Get out your bifocals!

THE AMATEURS'S CODE

by Paul M. Segal, W9EEA (1928)

The Radio Amateur is:

CONSIDERATE..... never knowingly operating 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.

The PATCH, Published by the Lake County Amateur Radio Association

LCARA was organized for the purpose of furthering Amateur Radio by increasing the technical knowledge and operating proficiency of radio amateurs through continuing education, public service and acting as a vehicle of communication by, between and with the members of the association. LCARA is an incorporated association chartered under the laws of the State of Ohio and is an exempt organization under section 501 (C) (3) of the Internal Revenue Code. Contributions to LCARA are fully deductible from Federal Income Tax. Regular and Senior Dues are \$20.00 per year, Students \$10.00. Items may be reprinted by other non-profit publications without prior permission providing credit is given to the original source and The LCARA Patch. Articles from members are welcome.

Voice Repeaters N8BC

147.210 with a .600 MHz+ offset PL tone of 110.9 Hz.

224.500 with a 1.6MHz.-offset, PL tone of 141.3 Hz.

444.650 With a 5.0MHz. +offset, PL tone of 131.8 Hz.

(Repeater & N8BC trustee, Bob Liddy, K8BL)

Web site: www.lcara.org

To receive the Patch via email in PDF format Send an e-mail to lcara_patch-subscribe@yahooogroups.com

THE LAKE COUNTY AMATEUR RADIO ASSOCIATION

