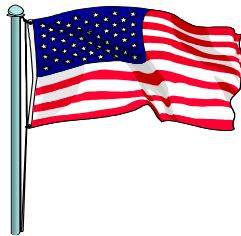


**10 METER ROUNDTABLE**  
**WEDNESDAY NIGHT @ 2030 HRS**  
**28.450 MHZ**

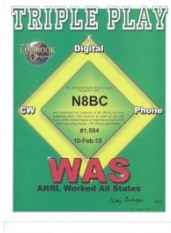


**LCARA TWO METER NET**  
**THURSDAY EVENING @ 1900 HRS**  
**147.210 MHZ**



**LCARA's Node  
 Number: 6577**

**LCARA WEB SITE**  
[www.lcara.org](http://www.lcara.org)



## The LCARA Patch

Volume 36, Issue 10

OCTOBER 2015

### The PATCH

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

### The Patch Staff

Editor: Ron Corban KC8BTN

### LCARA Officers

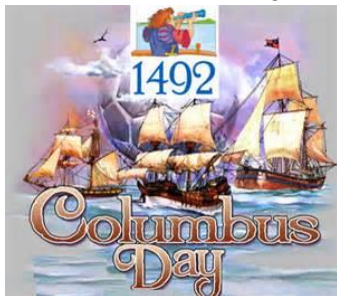
Ed Kopcak	KB8BKE	President
Larry Caskey	K8LPC	Vice-President
Rick White	W8QL	Secretary
<b>(VACANT)</b>		Treasurer
<b>(VACANT)</b>		Director at Large

### STANDING COMMITTEES

ARES/Public Service	Mike Goffos	WB8ZGH
Contest	Reno Tonsi	WT8C
DX	Jim Pyle	AA8OY
Field Day Chairperson	Jim Pyle	AA8OY
Field Day Assistant	Greg Smith	N9AGC
Fundraising	<b>(Vacant)</b>	
Historical Society	Bob Mekinda	K8QXO
History	Scott Farnham	KO8O
Publicity	Vance Roth	KA8YHZ
Communications	Greg Smith	N9AGC
Sunshine	Connie Tonsi	KB8ZZW
Trustee, N8BC	Bob Liddy	K8BL
Web Master LCARA	Bill Wihebrink	N8IJG

### OCTOBER MEETING TO BE HELD AT THE LAKE COUNTY HISTORICAL SOCIETY

415 Riverside Drive, Painesville, OH 44077



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## MINUTES of SEPTEMBER

### **Minutes from September 2, 2015 Meeting**

#### Board Members Present:

- KB8BKE – Ed – President
  - K8LPC – Larry - Vice President
  - W8QL - Secretary
  - Director at Large - Open
- The meeting was called to order at 7:30 PM by Ed – KB8BKE. There was no presentation for this evening

#### Meeting Minutes:

- The meeting began with a round of introductions by Ed – KB8BKE.
- There were no additions or corrections to the Patch
- There was no correspondence.
- No treasurer report. Addresses and contact information is still being requested. New pullets and rope were paid for.
- No board meeting report
- No ARRL report
- No new members at this meeting.
- Jim – AA8OY gave the DX report.
- No education report
- Public Service Report: Mike – WB8ZGH Mike stated that the next events were as follows
  - Ohio State Parks on the air – September 12, 2015 at Headlands Beach – noon to 8 PM
  - Lake Health Marathon – October 14, 2015
  - Mock search and rescue– September 19, 2015 – Coordinate through Matt Welch – W8DEC
  - Additional activities noted by KF1X – Neal about ceremonial station at Geauga Fair – W8G – 10AM to 4 PM 9/4-7/15
- There was no report on the Patch
- Greg - N9AGC – No Report. We are still waiting for the new digital repeaters. No new status update
- Connie – KB8ZZW – None
- No report for the Thursday night 2 meter, 147.21 net at 7:30 PM.
- Mike - WB8ZGH noted the 10 meter net on 28.450 is still going on Wednesday nights at 8:30 PM.
- Swap and Sell: Ham Station from W8FDL – Ish. See Mike Goffos – WB8ZGH for all items for sale
- Old Business: None.
- New Business: None
- Announcements:
  1. Jim - AA8OY presented a check for \$100.00 from the North Coast Multisports for the Cleveland Marathon.
  2. Bob Liddy – K8BL announced he was getting a Ham back on the air.

***Minutes Continued***

3. Technician classes starting 9/10/2015 at LCHS Meeting from 6-9 PM for 6 sessions. We are expecting 10 to 30 people to attend.
  4. LCARA wants teach the next round of licensing classes. They are to be ARRL oriented. A long discussion ensued on this issue.
  5. The Fun Days at LCHS by Bob – K8QXO were discussed. This appears to be a successful event with many stories told.
  6. Next month's presentation for LCARA will be Eric Bartholomew of the Geauga Radio Club on Repeaters.
  7. Scott Yonally(sp) will be coming back to LCARA to talk about electrical safety.
  8. A presentation is tentatively set for January, 2016, by the NTSC. As a side note, it was noted that the NTSC was merging with FEMA.
  9. In addition to items 6, 7, and 8, Larry – K8LPC is also looking for an opportunity to get a presentation on NVU antennas for a future meeting.
  10. Additional comments on future presentations centered around contacting speaker's bureaus from colleges, universities, prominent companies, etc.
- Reno - WT8C, Connie – KB8ZZW and Joe – KD8PFB will form a committee to have the Christmas Party on December 2, 2015, at the LCHS

Meeting adjourned at 8:37PM



Rick - W8QL

***ATTENDANCE for SEPTEMBER***

**LCARA Meeting Attendance Sheet for September, 2015**

Ed, KB8BKE, Rick, W8QL, Larry, K8LPC, Joe, KD8PFB, Ron, KC8BTN, Tom, KD8SJG, Bob, K8QXO, Dick, W8GQO, Connie, KB8ZZW, Reno, WT8C, Jim, AA8OY, Fritz, K8WLF, Cal, W8BZP, Mike, W8ZGH, Vance, KA8YHZ, Bob, K8BL, Neal, NF1X, Len, WA8EJO, Bill, KC8HSI, Joe, N8JKO, and Phil, KC8JPV.



## HOLIDAY DINNER

It is important that the members come to the October meeting to vote on which option they want to have for the dinner.

### LCARA 2015 Holiday Dinner

The Holiday Dinner planning committee has met, and chosen the menu for this year's gathering. Cater To You, the catering unit of Longo's Restaurants, will again prepare the food. The meal will consist of the following for both options:

Dinner salad with choice of dressing  
Roll & butter  
Penne Pasta  
Roasted Turkey  
Roast Beef  
Mashed Potatoes & Gravy  
Mixed Squash Medley  
Homemade Apple Squares for dessert.



The Board of Directors has authorized the committee to offer the following two options for the membership to choose from, and a vote will be taken at the October Membership Meeting. Based on the outcome of the vote, all monies for securing your dinner reservation on December 2, 2015 will be required by the November 2015 Membership Meeting.

#### Option #1

Dinner will be at Lake County Historical Society, and will be of the same format as last year. In 2014, four of our members willingly gave up their evening to prepare the venue, serve dinner to the members and cleanup at the end of the evening. The same members are willing to again give up their evening to serve you, and member costs for dinner will remain \$20 per person. The menu this year will again be prepared by Cater-To-You, and be delivered to the venue by Joe Valencic to keep costs down. Dinner will be served on heavy-duty paper plates with plastic ware. Beverages will be self-serve from 2-litre bottles in plastic cups, same as last year.

#### Option #2

The venue will be at the newly renovated Cater To You, Fr. Kline Social Center on the grounds of St. John Vianney church, 7575 Bellflower Rd. in Mentor. The venue has a drive-up, covered canopy where guests and equipment can be dropped off without concern of weather. Parking is close-in, and the venue is fully wheelchair accessible at ground level...no stairs to climb. Round tables seating 8 people will have cloth table cloths, china, metal silverware and centerpieces. Beverages of sodas, coffee & tea in glass & china cups are included in the price of \$25 per person. The above menu will be served by the venue staff so all members can have a non-working evening.

It is the suggestion of the Committee and the Board, that members choose Option #2, even though it is an additional \$5 per person. It affords all members the ability to enjoy the evening at a very reasonable price.



*QRP in the Park*

**October 11<sup>th</sup>.**  
**Last QRP for 2015**

*Let's Get on the Air with*  
*QRP in the Park*

Time: 10:00 a.m. - 1:00 p.m.

Dates and Locations:

Sunday, April 26, 2015 — Colby Park, Wickliffe, Ohio  
Sunday, May 31, 2015 — Veterans Park, Mentor, Ohio  
Sunday, June 21, 2015 — Colby Park, Wickliffe, Ohio  
Sunday, July 12, 2015 — Veterans Park, Mentor, Ohio  
Sunday, August 2, 2015 — Colby Park, Wickliffe, Ohio  
Sunday, September 13, 2015 — Veterans Park, Mentor, Ohio  
Sunday, October 11, 2015 - Colby Park, Wickliffe, Ohio

*Weather Permitting*

*This operating activity is open to all.*

Licensed amateur radio operators that would like to bring out their portable stations, antennas, and operate remotely.

(Environmentally friendly power source)

Feel free to bring out a lawn chair and a lunch and pick up information on Amateur Radio and QRP activities.

*Repeater Talk-In*

147.255 - (+600, No PL)

Updates and Location changes can be found at:

<http://www.lcara.org>

*Click on the club calendar.*



For Additional Information or Questions

Contact:

Bill, N8IJG

[n8ijg@arrl.net](mailto:n8ijg@arrl.net)



## **VP CORNER K8LPC**

### **FROM THE CORNER OFFICE OF THE VICE PRESIDENT, LARRY K8LPC**

Greetings Everyone ☺

Well, we made it to October; fall is approaching, and it can take its good old time too. LCARA participated in one Public service event in September, Ohio State Parks on the air. I hope that everyone had a chance to participate. I'm sure that Mike WB8ZGH will have more details for us at the meeting on the brave souls who came out to Headlands State Park in the rain to participate. The Lake Health Systems Northern Ohio Marathon is scheduled for October 4<sup>th</sup>, please contact Mike WB8ZGH for details, we can use helpers. The Findlay and Cleveland Hamfest have passed and are also in the books for this year.

Our Technician Class began in September. The attendance for the first few meetings was somewhat on the slim side. Our President Ed and I opened and closed the LCHS for the students, and Ed informed the class that we (LCARA) will be hosting General and Extra Class Classes in the future. We had our Radio Shack at the LCHS open and manned during the classes, which the attendees enjoyed visiting during their breaks. Several students asked about joining our club, so we may have a few new members in the upcoming months.

Our Christmas Dinner Committee, (Reno WT8C, Connie WB8ZZW and Joe KD8PFB) have gone to great lengths to prepare options for our Holiday gathering. Everyone is encouraged to attend the October meeting as the committee will present the options which we will vote on. **The money for the meal will need to be brought to the November meeting so all can be in place for the December 2<sup>nd</sup> gathering.**

Our Guest speaker for this month is Eric Bartholomew from The Geauga County Sheriff's Office. We are looking forward to his presentation on the MARCS Radio System and several local repeaters.

I'm always looking for Guest Speakers, so if anyone has any suggestions, or would like to present something, please contact me.

I'm looking forward to seeing everyone at the Lake County Historical Society on Wednesday October 7<sup>th</sup> at 7:30 PM, bring a friend ☺

**73 de Larry Caskey K8LPC**

**LCARA Vice President**

[KBLPC@ARRL.NET](mailto:KBLPC@ARRL.NET)



## **PUBLIC SERVICE**



The Lake Health Systems Northern Ohio Marathon is scheduled for This Sunday, October 4<sup>th</sup>, please contact Mike WB8ZGH to volunteer.

## BREAKFAST DATE



### Tuesday Morning Breakfast Group

Next meeting of the Tuesday Morning Breakfast Group is at the Painesville Perkins on **Tuesday, October 20th.** 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. This is not a club event. Please encourage any Hams or Non-Hams you know to attend. It is a fun gathering.

## BACKSCATTER October 2015

### BACKSCATTER FOR SEPTEMBER 2015

**131 Years Ago:** Greenwich was adopted as the universal meridian. At the behest of the U.S. President, 41 delegates from 25 nations met in Washington, DC, and established there would be a single world meridian passing through the principal Transit Instrument at the Observatory at Greenwich. All longitude would be calculated both east and west from this meridian up to 180°. This was passed 22-1, with San Domingo voting against, and France & Brazil abstaining. Greenwich lies on the River Thames, a few miles from central London.



**35 Years Ago:** Little known amateur radio laws, rarely included in the VE tests, include:

Sattinger's Law: It works better if you plug it in.

Schmidt's Law: If you mess with it long enough, it will break.

Smith's Laws:

- The odds of receiving a QSL card are inversely proportional to the cube of your need for confirmation.
- In a DX list operation, your call area will be last.
- When the list gets to your call, the band will close.
- All stereo speaker leads are manufactured to the dimensions of a 15 meter dipole.

**32 Years Ago:** The last hand-cranked telephones in the US went out of service as 440 telephone customers in Bryant Pond, Maine, were switched to direct-dial service. Prior to that time a resident's number could be as short as 33.



**30 Years Ago:** London Bridge Broadcasting of Lake Havasu City, Arizona, files a request for wavier of the FCC's rules to permit use of 434 MHz for gathering news, and re-broadcasting such news on their television station. The Private Radio Bureau seeks comments on this filing.

The FCC proposes amateur bands at 10.100-10.150 MHz, 24.890-24.990 MHz, and 902-928 MHz. They also announce the elimination of amateur operation on 420-430 MHz within 150 miles of Canada.

**Backscatter Continued**

**BACKSCATTER CONTINUED**

**25 Years Ago:** LCARA members will celebrate the 150<sup>th</sup> anniversary of Lake County by operating special event station WT8F from the Lake County Historical Center. Three stations will be set up, including one for Novice operation.

The FCC requests comments on its proposal to allow the wavier of CW tests for handicapped persons wishing to upgrade beyond 5 WPM.

**20 Years Ago:** The FCC announces plans to close all but one of its monitoring stations. They state that the one remaining in Laurel Maryland will monitor via remote electronic means, and that no monitoring function will be impaired.



Laurel Maryland

Solar cycle 23 is detected, although the bottom of 22 is still a year away. New cycles are identified by sunspot magnetic polarity, which switch each cycle.

Tom, KB8WFD, graciously volunteers to be the Vice Chairman of the 1996 Hamfest.

**15 Years Ago:** Five new members are welcomed into the club.

**10 Years Ago:** Dennis, KI8U receives the Ohio Single Sideband Net's award for traffic handling and promotion of the national traffic system.



After discovering there are no trees in the Arizona desert to support wire dipoles, Vance, KA8YHZ designs and demonstrates his dipole-on-a-stick ... two HF mobile fiberglass whips positioned base-to-base as a dipole, and mounted on a short mast in the bed of his pickup.

**5 Years Ago:** The question is raised as to which is dumber, county hunting, or collecting QSL card from stations whose call signs spell out words. The county hunter's wife asks after he confirms all 3077 counties, if he would now get rid of all his radios since he'd talked to everybody.



**Scott KO8O**  
**LCARA Historian**

**Sweetest Day Saturday, October 17<sup>th</sup>.**



*The first Sweetest Day was pronounced as October 8, 1921 in Cleveland.*  
*The Cleveland Plain Dealer's October 8, 1922 edition, which chronicles the first Sweetest Day in Cleveland, states that the first Sweetest Day was planned by a committee of 12 confectioners chaired by candymaker C. C.Hartzell.*



## HAM EXAMS IN LAKE COUNTY

### LCARA OFFERS TESTING EVERY OTHER MONTH

The Lake County Amateur Radio Association will be holding its **2015** Amateur Radio license exams at **the Kirtland Library**, on the following dates:

**Saturday, October 4**      Saturday, December 6



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. The library is on the left, immediately after the Marathon gas station.

To register, you will need the NCVET 605 Form, which will be available at the test. If you would like to complete one ahead of time, you can find it at [arrl.org/files/file/ncvec605-3.pdf](http://arrl.org/files/file/ncvec605-3.pdf).

***The tests will start at 12 Noon. Please arrive a few minutes early.***

Please 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 is also necessary, with a picture ID.

If you have any questions, please contact Scott Farnham, KO8O, at (440)256-0320.

*License expires on .....*

**THE UNIVERSAL LICENSING SYSTEM (ULS), THE ELECTRONIC COMMENT FILING SYSTEM (ECFS), THE ELECTRONIC DOCUMENT MANAGEMENT SYSTEM (EDOCS) IS UP AND RUNNING.**

Renewing on line is very easy. You will need your FRN and ULS password.

Go to the main ULS page at: <http://wireless.fcc.gov/>

Click on "Log In" under "Online Filing"



1. Enter your FRN and password
2. Once you are logged in you can renew your license. You can do a variety of other things here too like change your address and request a duplicate license.

The next working day you should get an "Official Copy" of you license in your e-mail.

*Additionally - is your address correct on your license? If the FCC sends you a letter to the address listed on your license and it gets returned, they will cancel your license.*

## **LCARA NET INFORMATION**

*All nets need Alternate Net Control Operators*

### **Lake County ARES/Weather Net**

**The Net is Every Monday at 8:00pm** on the 146.210 and 444.650 repeaters. 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, swap and sell ham related items, and any sunshine announcements. N8IJG brings us the ARRL News when available. 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. WB8ZGH will be looking for you.

### **Ohio Emergency Preparedness Nets, Columbus EOC**

**Ohio Emergency Preparedness Net** is on every Tuesday at 7:15 (1915 hours or 0015 UTC). Tune up and check in! Follow on Twitter (hashtag W8SGT) for frequency information. The net start in the 40 meter band, then moves to the 20 meter band.

You can also see their Twitter feed directly from the Ohio Section Website <http://www.arrl-ohio.org/>. There's a window on the left side of the main page that allows you to view the Twitter posts from W8SGT directly. If you don't have a Twitter account, you are still good to go. Log on to the Ohio Section website <http://arrloho.org> and look on the left side bar.

**Ohio Digital Emergency Net** is held on Tuesdays at 8:00pm (0100 UTC) after the Ohio Emerg. Preparedness Net. OHDEN meets on 3585 KHz +/- USB.

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)



## OHIO HAMFESTS

10/18/2015 | [CONNEAUT ARC's HAM FEST](#)

10/25/2015 | [Massillon ARC Hamfest](#)

**Location:** Conneaut, OH

**Type:** ARRL Hamfest

**Sponsor:** Conneaut Amateur Radio Club

**Website:** <http://www.facebook.com/W8BHZ>

[Learn More](#)

**Location:** Massillon, OH

**Type:** ARRL Hamfest

**Sponsor:** Massillon Amateur Radio Club

**Website:** <http://www.w8np.org>

[Learn More](#)

From the sharpest corner of Ohio returns the  
**CONNEAUT AMATEUR RADIO  
CLUB**

# 2015 HAMFEST

OCTOBER 18<sup>th</sup>

Located at the Conneaut American Legion  
272 Broad Street Conneaut, OH 44030

Directions: I-90 to Conneaut Exit 241(SR7)  
North on SR7, follow SR7 through town.

American Legion is on East Side of SR7 just North of downtown Conneaut.  
Follow Hamfest Signs.

- Admission \$5.00(Children 10 and under Free)
- Vendor tables \$10 each(includes 1 entry ticket)
  - Doors open to public at 8:00AM
  - Vendors welcome to setup at 6:00AM
  - Mobile Check in 147.390 + PL 131.8
  - Parking on North side of building only
    - ARRL representative on hand
- Food and Refreshments by American Legion Auxiliary
  - Grand Prize- Yaesu FT-2900R 75W 2 Meter Mobile
    - 1<sup>st</sup> runner up Alinco DJ-500T Dual Band HT
    - 2<sup>nd</sup> runner up Yaesu FT-252 2 Meter HT
  - Mobile Check in Prize- Comet Dual Band Mobile Antenna
    - Plus Multiple random door prizes
      - 50/50

For Information contact  
Mike Pongrass W8NEO  
kd8osj@yahoo.com  
814-440-6679

## CALENDER



### MARK YOUR LCARA CALENDER 2015

Event	Contact	Location	Date
<b>Lake Health Marathon</b>	<a href="mailto:mgoffos@ymail.com">mgoffos@ymail.com</a>	Start/Finish Headland St. Park	<b>10/04</b>
<b>LCARA Meeting</b>	<a href="http://www.lcara.org">www.lcara.org</a>	Lake County Historical Society	10/07
<b>LCARA Brd. Meeting</b>	<a href="http://www.lcara.org">www.lcara.org</a>	McDonalds	10/14
<b>Breakfast</b>	ALL INVITED	Perkins, Painesville	10/20
<b>Beggars Night</b>		Historical Society Radio Room	10/30
<b>ARES &amp; Wx Net</b>	<a href="mailto:kc8btn@arrl.net">kc8btn@arrl.net</a>	147.210 and 444.650	MONDAYS
<b>Ten Meter Roundtable</b>	<a href="http://www.lcara.org">www.lcara.org</a>	28.450	WEDNESDAYS
<b>Two Meter Net</b>	<a href="http://www.lcara.org">www.lcara.org</a>	147.210	THURSDAYS

## STATE QSO PARTY CALENDAR

Last Updated 09/20/2015

Click Heading to Sort

State/Province	Start Date ▾	Sponsor Website	Notes
California	10/03/2015	<a href="#">California QSO Party</a>	
Pennsylvania	10/10/2015	<a href="#">Nittany Amateur Radio Club</a>	
Arizona	10/10/2015	<a href="#">ARRL Arizona Section &amp; Catalina Radio Club</a>	
Iowa	10/17/2015	<a href="#">Ottumwa ARC</a>	
South Dakota	10/17/2015	<a href="#">South Dakota QSO Party</a>	
New York	10/17/2015	<a href="#">Rochester DX Association</a>	Based on 2014 date.
Illinois	10/18/2015	<a href="#">Western Illinois Amateur Radio Club</a>	

## ***DX ALERT***

### **OCTOBER 2015 DX ALERT**

**3B8 - Mauritius** DJ7RJ, Willi, will be on the air from 3B8, Mauritius, October 5-30. Willi plans to be on 160-10 meters CW and SSB, with an emphasis on 160.

**KH8 - American Samoa** WS5K/KH8, Stan, is on the air from Pago Pago, American Samoa until October 4.

**9G – Ghana** –SP3UQE, Piotr, plans to be QRV in his "leisure time" as 9G5SP.

**J3 – Grenada** – DH5FS, Fred, began to operate as J3/DH5FS. He's running 100 watts into a ground plane and will be QRV on CW only on 7 through 28 MHz.

**JD1/M- Minami Torishima** -- JG8NQI, Take, will be QRV during the month in his spare time on CW only as JG8NQI/JD1.

**RI1F- Franz Josef Land** -- UA4RX, Eugene, will operate RI1JF on CW, SSB and digital until mid 2016.

**S7- Seychelles** -- A Polish team will operate as S79SP October 3-10.

**V7- Marshall Islands** -- A German crew will be active as V73D from October 13-28.

Happy hunting!

Jim, AA8OY

Thanks to ARRL DX & Weekly DX



## ***LCARA MEETING REMINDER***

Our Guest speaker for this month is Eric Bartholomew from The Geauga County Sheriff's Office. His presentation will be on the MARCS Radio System and several local repeaters.

**It is important that the members come to the October meeting to vote on which option they want to have for the dinner.**

*If you find an error in the PATCH, or have a suggestion, please e-mail [kc8btn@arrl.net](mailto:kc8btn@arrl.net)*

*If you have or are receiving a PATCH and are not a member please consider joining and adding your input to the club.*

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

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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.*

*LCARA's Node Number: 6577*

*(Repeater & N8BC trustee, Bob Liddy, K8BL)*

**Web site:** [www.lcara.org](http://www.lcara.org)

**To receive the Patch via email in PDF format** Send an e-mail to [lcara\\_patch-unsubscribe@yahoogroups.com](mailto:lcara_patch-unsubscribe@yahoogroups.com)

THE LAKE COUNTY AMATEUR RADIO ASSOCIATION

