

## W8LAP / r

146.620 - 100 Hz 442.750 + 123 Hz

## Lapeer County Amateur Radio Association

Club Founder: Hollis Hayes W8ACD

## Edition for August 2015

\*\* The next regular elub meeting will be held on Tuesday

August 11th, 2015 @ 6:30 pm at Cramton Park

#### ARES Net

Every Tuesday at 8:00 pm on 146.620 - with 100 Hz PL (except club meeting nights)

## Thursday Night Net

Every Thursday at 8:00 pm on 442.750 + with 123 Hz PL

## Meetings

LCARA meetings are held the second Tuesday of each month in the Lapeer County Central Dispatch Center (911), 2332 W. Genesee St., Lapeer, MI at 7:30 pm

#### Newsletter

Items for the newsletter may be called in to the editor at 810-793-4986 or emailed to  $\underline{kevinboxey@hotmail.com}$ . The deadline for submission is the  $20^{th}$  of each month.

Website: <a href="http://www.w8lap.com">http://www.w8lap.com</a>

## 2015 2015 2015 2015 2015 2015 2015 2015

August						
Sun	Mon	Tue	Wed	Thu	Fri	Sat
						1
-ARPSC @2:00 pm on 3.932 LSB -D3 net 145.31+131.8 Hz PL at 6:30 pm - D3 HF digital net 3.583 USB at 8:00 pm	3	4 ARES net 146.620+ 100 Hz PL at 8 pm	5	6 ARES net 442.750+123 Hz PL at 8 pm	7	8
-ARPSC 9:00 pm on 3.932 LSB -D3 net 145.31+131.8 Hz PL at 6:30 pm - D3 HF digital net 3.583 USB at 8:00 pm	10	11 LCARA club meeting 6:30 pm at Cramton Park	12	13 ARES net 442.750+ 123 Hz PL at 8 pm	14	15 -T&C
-ARPSC & 500 pm on 3.932 LSB -D3 net 145.31 131.8 Hz PL at 6:30 pm - D3 HF digital net 3.583 USB at 8:00 pm	17	18 ARES net 146.620+ 100 Hz PL at 8 pm	19	20 ARES net 442.750+ 123 Hz PL at 8 pm	21	22
-ARPSC 2500 pm on 3.932 L5B -D3 net 145.31+131.8 Hz PL at 6:30 pm - D3 HF digital net 3.583 USB at 8:00 pm	24	25 ARES net 146.620+ 100 Hz PL at 8 pm	26	27 ARES net 442.750+ 123 Hz PL at 8 pm	28	29
-ARPSC 500 pm on 3,932 LSB -D3 net 145,31+131.8 Hz PL at 6:30 pm - D3 HF digital net 3,583 USB at 8:00 pm	31					
Phases of the moon: 6: ● 14: ● 22: ● 29: ○						

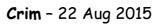
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ARES net 146,620+100 Hz PL at 8 pm   RES net 146,620+100 Hz PL at 8 pm  RES net 142,750+123 Hz PL at 8 pm   RES net 142,750+123 Hz PL at 8 pm  10 ARES net 142,750+123 Hz PL at 8 pm  11 ARES net 142,750+123 Hz PL at 8 pm  12 ARES net 146,620+100 Hz PL at 8 pm  ARES net 146,620+100 Hz PL at 8 pm  ARES net 146,620+100 Hz PL at 8 pm  21 ARES net 146,620+100 Hz PL at 8 pm	Sun	Mon	Tue	Wed	Thu	Fri	Sat
LCARA club meeting 7:30 pm at the EOC  -ARPSC 130 pm on 3.932 LSB -D3 net 145.31+131.8 Hz PL at 6:30 pm -D3 Hz digital net 3.583 USB at 8:00 pm  -ARPSC 250 pm on 3.932 LSB -D3 net 145.31+131.8 Hz PL at 6:30 pm -D3 Hz digital net 3.583 USB at 8:00 pm  -ARPSC 250 pm on 3.932 LSB -D3 net 145.31+131.8 Hz PL at 6:30 pm -D3 Hz digital net 3.583 USB at 8:00 pm  -ARPSC 250 pm on 3.932 LSB -D3 net 145.31+131.8 Hz PL at 6:30 pm -D3 Hz digital net 3.583 USB at 8:00 pm  -ARPSC 250 pm on 3.932 LSB -D3 net 145.31+131.8 Hz PL at 6:30 pm -D3 Hz digital net 3.583 USB at 8:00 pm  -ARPSC 250 pm on 3.932 LSB -D3 net 145.31+131.8 Hz PL at 6:30 pm -D3 Hz digital net 3.583 USB at 8:00 pm  -ARPSC 250 pm on 3.932 LSB -D3 net 145.31+131.8 Hz PL at 6:30 pm -D3 Hz digital net 3.583 USB at 8:00 pm			146.620+ 100 Hz	2	ARES net 442.750+123 Hz	OPERATION	OPERATION
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3.932.LSB	3.932 LSB -D3 net 145.31+131.8 Hz PL at 6:30 pm - D3 HF digital net	14	ARES net 146.620+100 Hz	16	ARES net 442.750+123 Hz	18	
3.932 L S B -D 3 net 145.31 + 131.8 Hz PL at 6:30 pm 146.620 + 100 Hz -D 3 HF digital net 3.583 U S B at 8:00 pm  ARES net 146.620 + 100 Hz PL at 8 pm	3.932 LSB -D3 net 145.31+131.8 Hz PL at 6:30 pm - D3 HF digital net	21	ARES net 146.620+ 100 Hz	23	ARES net 442.750+123 Hz	25	
Phases of the mases 5:0 42:0 24:0 27:0	3.932 LSB -D3 net 145.31+131.8 Hz PL at 6:30 pm - D3 HF digital net	28	ARES net 146.620+100 Hz PL at 8 pm				
Holidays and Observances: 7: Labor Day	Holidays and (						

## **Upcoming events**



## Public Service Event Schedule

\*\*\* please keep these dates open in your calendar \*\*\*



Labor Day Op CARE - 04 to 07 Sept 2015









The August club meeting will be at Cramton Park at 6:30 pm

#### The President Says:

Hello fellow LCARA members.

I will keep this short and sweet this month since there are only 3 items.

- 1) The August club meeting will be held at Cramton Park "as usual". If you would like to set up equipment then please bring it along. Or...only bring yourself for the spirited conversation. Remember that we did not reserve the pavilion this year due to the change in policy for non-profits. So, if you see unfamiliar faces at the normal spot then try another pavilion.
- 2) I noticed that the September club meeting date is a little odd and falls the day after Labor day. Please take note.
- 3) Also note, we are at that time of year again for club officer nominations and elections. Maybe this is the year to raise your hand and help out.

See you at the park. Kevin KB8TAR

#### The Treasurer Says:

Greetings to one and all. As I prepare this report I am looking out the window at a beautiful morning. I tell my self that it would be a great day to go out and prepare that four element yagi that's been waiting a couple of years to be put together. That tower sure looks naked without a beam up top. I will just have to see what the day brings. But I digress, the reason I am here is to report on the treasury not tell you my problems.

Our treasury is doing just fine. The proceeds from Operation Care Independence Day were not quite as good as I had thought they might be after seeing the Memorial Day donations, but they were adequate. We did have a little extra expense this month due to the fact that good ole DTE nailed us twice this month for the electric bill. That happens every once in a while due to the 28 day schedule. Also we received a bill from Utech-computers for the W8LAP domain name. That amounts to \$15.00 a year. I anticipate that shortly there will be a bill for the hosting of the web site, that amounts to \$90.00 a year. If there are any of you web tech savvy out there that can find a way to reduce this cost it would be greatly appreciated.

Our repeater tech team has done a wonderful job of reducing our costs at the repeater. Now we need to find a way to reduce the web site costs.

I am looking forward to seeing everyone at the meeting in the park August 11th.

Respectfully submitted William Miller KD8VP

#### The Trustee Says:

Hello W8LAP Supporters:

Only a single issue required attention at the repeater site. The squelch tail of the two meter repeater would react in randomly unexpected ways. During the recent club HF drill, the Tech Team (Will & Lee) attempted to switch various controls to determine whether a control, or something else (ambient conditions, for example) caused the problem. The problem disappeared when the 220 MHz link to the inoperative North Branch repeater was set to off. The suspected cause was the squelch of the 220 MHz radio being set too low, and was being tripped by random noise. Since the setting change, our two meter squelch tail is operating normally. Good work by the Tech Team.

#### This month's Links:

Understanding Quadrature (I & Q)

Conversations about digital communication modes have arisen at recent club meetings. PSK (Phase Shift Keying), developed in the late 1990s, started the trend in using computer sound cards for modulation/demodulation of keyboard characters. Now, most new rigs use some form of SDR (Software Defined Radio) for modulation/demodulation of AM, SSB, and FM.

The above PSK (and other) modulation schemes require audio tones from the associated software for operation. A monophonic sound card will not work, because the signal is demodulated through the use of quadrature action. With quadrature, the incoming signal is separated into two components: The "I" and "Q," which are 90 degrees apart. Thus, a stereo sound card must be used.

All the pages of a typical Waveguide are inadequate to fully explain why and how the above interact. Fortunately, many resources are available on the web.

One source is a two part video on YouTube, by Alan: #170: Basics of IQ Signals and IQ modulation & demodulation - A tutorial and #171: IQ Signals Part II: AM and FM phasor diagrams, SSB phasing method

For a more graphic tutorial, this site will allow you to go through the theory at your own pace: <a href="http://www.fourier-series.com/IQMod/index.html">http://www.fourier-series.com/IQMod/index.html</a>

If you are new to the subject, my advice is to watch the material in the YouTube videos without trying to absorb the math portions. Just watch, and let the concepts come through in their own time.

Should the above seem too much to grasp, then do a search along the lines of "explain quadrature signals." You're bound to find something that satisfies your needs.

#### Off Topic, Non-Ham Link

I have a cousin named Terry Sawchuck. He is named after the famous Detroit Red Wings goalie. My Uncle Pete Sawchuck met Terry (the goalie) shortly after WWII, and, although unrelated, they became good friends. In 1955 or so, my cousin was born, and named thusly.

The link is to show what damage playing hockey could do to someone in the era before protective gear came into being. The shot is of Terry Sawchuck in *Life* Magazine.

http://buzzlamp.com/glimpse-amazing-past-historic-photos/109/

See you at the next meeting,

Mike, KN8Z (kn8z at arrl.net)

#### LCARA Meeting Minutes

July 14, 2015

The meeting was called to order at 7:30 pm. Eleven members and guests were in attendance.

We welcomed 3 guests, N8OSL (Joe), N8LBF (Dave) and Mark (SWL) almost ready to take his test.

The Secretary's report was read and approved by the members present. The Treasure's report was read and approved by the members present.

The Repeater Trustee report stated that the 220 link receiver at the repeater sight was breaking squelch and causing the 2 meter repeater to transmit receiver noise intermittently. Most likely cause is the 220 link receivers squelch sensitivity setting changing due to temperature. Disabling the 220 link resolved the noise burst issue. It was also reported that the North Branch repeater has not been operational for some time therefor we will leave the 220 link off for the time being.

Our esteemed president Kevin KB8TAR, was commended for his exceptional support of the Search and Rescue ARISS exercise.

#### Old Business

- -The August Association meeting will be held at Crampton Park. Comradery & eyeball QSO's will begin at **6:30 pm**.
- -Local license exam sessions as reported by the ARRL will be included in the Waveguide.
- -Kevin and Tom met with personnel from the Health Department to determine feasibility and location for an antenna for location on the roof. A location was found. Next step is to determine the path for a coax connection to a transceiver and its location for ARISS usage.
- -Operation Care weekend was held. Information will be available at the next meeting.
- -Andy has a cooler jug he will donate.

#### New Business

- -It was reported that Tuscola County Radio Group purchased a Yaesu Fusion repeater. Lee (N8LJ) will contact Jeff Pender for further details and a possibility for a Fusion technology presentation.
- Last Thursday in place of the 440 scheduled net, Kevin scheduled an HF exercise to determine the capability of HF communication within the county. Those participating were Kevin KB8TAR net control, Jeff WB8WKQ, Will KB8YGA, Mike KD8OTZ, and Lee N8LJ. As we cycled through the HF phone spectrum 80 thru 10 meters, it was determined that 15 meter offered the best communication ability between the stations with 10 meters being  $2^{nd}$  best. Kevin will report our ARISS 15 meter frequency on the required Form 217A. At a future date Kevin will schedule a VHF simplex exercise.

### **Presentations**

-Kevin KB8TAR, Mike KD8OTZ, and Will KB8YGA presented the results of their efforts to put Lapeer County "on the air" during the Michigan QSO party. They were successful in implementing logging software, making QSO's, and submitting their logs to the event sponsor via Cabrillo files.

-Lee N8LJ presented his team's effort to activate the LS Huron during Museum Ships Weekend.

Respectfully Submitted

Lee N8LJ

## Event announcement



## International Lighthouse Lightship Weekend

AN ANNUAL AMATEUR RADIO WEEKEND EVENT.
FOUNDED IN 1995 BY TWO MEMBERS OF THE AYR AMATEUR RADIO GROUP, (AARG), SCOTLAND,
AND HELD ON THE THIRD FULL WEEKEND IN AUGUST.

15-16 August 2015 - Duration 48 hours from 0001 UTC 15.8.2015

#### What is regarded as a Lighthouse for this event?

Lighthouse: Generally regarded as a structure which is or has been listed officially as an aid to navigation in a recognized publication such as the British Admiralty List of Light and Foghorns, and which falls into the classic concept of a lighthouse. For example, a substantial tower having an internal staircase, a revolving Fresnel lens and had or has a designated lighthouse keeper. Also permitted are lighthouses which have been moved to a museum for historic reasons.

http://illw.net/ OFFICIAL LIST OF ENTRANTS - 2015 Total= 227

## Event announcement





# AMATEUR RADIO DISITRL WORKSHOP

Digital Voice Mode Primer:

+D-star +MotoTrbo +System Fusion
A review of the three modes, and discussion of what might be the "best fit" for your use!

\$10 registration fee required which benefits the Salvation Army.

Lunch and Snacks will be Provided by the Salvation Army.

For information, email: CherrylandARC@gmail.com

Sign up online at: <a href="http://bit.ly/carcdigital">http://bit.ly/carcdigital</a>



Salvation Army 1239 Barlow Street, Traverse City MI 49686 Saturday, September 26, 10am-3pm

Speakers:

D-Star: Chuck Scott N8DNX and Chuck Brew N8NXP

System Fusion: Mike Flynn KC8GW MotoTrbo: Joe Erlewein N8CN

www.CherrylandARC.com

## Hamfest information



HAMFEST/CONVENTION

#### 08/16/2015 | Seaway Trunk Swap

Location: Port Huron, MI Type: ARRL Hamfest

Sponsor: Eastern Michigan Amateur Radio Club

Learn More



HAMFEST/CONVENTION

#### 09/19/2015 | GM ARC Trunk Swap

Location: Shelby Township, MI

Type: ARRL Hamfest

**Sponsor:** GM Amateur Radio Club **Website:** http://www.gmarc.org

Learn More



HAMFEST/CONVENTION

#### 09/20/2015 | Adrian Hamfest

Location: Adrian, MI
Type: ARRL Hamfest

Sponsor: Adrian Amateur Radio Club

Website: http://w8tqe.com

Learn More



HAMFEST/CONVENTION

#### 10/25/2015 | USECA's 2015 Swap & Shop

Location: Madison Heights, MI Type: ARRL Hamfest

Sponsor: Utica Shelby Emergency Communication Association

Website: http://usecaarc.com

Learn More



HAMFEST/CONVENTION

#### 12/06/2015 | LCARC Amateur Radio Swap/Hamfest

Location: Mount Clemens, MI Type: ARRL Hamfest

Sponsor: L'Anse Creuse Amateur Radio Club

Website: http://www.n8lc.org

Learn More

## Hamfest information

# 2015 COLUMBUS, OHIO HAMFEST AND ARRL GREAT LAKES CONVENTION Saturday, August 1, 2015

Celebrating our 25th year

Sponsored by:

The Voice of Aladdin Amateur Radio Club - W8FEZ

8:00 AM - 2:00 PM

Talk-in on: 146.760 - PL 123.0

(Doors open at 6:00 AM for vendor setup)

Located at:

**Aladdin Shrine Center** 

3850 Stelzer Road Columbus, Ohio 43219-3044 RER

Admission

\$5 at the gate 12 and under free **Indoor Tables** 

Free with paid admission

**Outdoor Space** 

Free with paid admission

- Forums Covering a wide range of fun and informative Amateur Radio Topics,
- Vendors Universal Radio, and big name vendors. See the website for the growing list!
- Shopping Easton Town Center (http://www.eastontowncenter.com)
- · V.E. Amateur Radio License Testing
- OHIO SSBN Annual Meeting



For Hamfest information visit our Website

http://www.columbushamfest.com/



## Testing session information

EXAM SESSION

08/06/2015 | Lansing MI 48911-5322

Sponsor: Ingham County VE Group

Location: Lansing Fire Station #44 (Community Room)

Time: 7:00 PM (Walk-ins allowed)

Learn More

**EXAM SESSION** 

08/08/2015 | Ann Arbor MI 48108-1516

Sponsor: ARROW Communications Assoc. Location: American Red Cross Building Time: 9:00 AM (Walk-ins allowed)

Learn More

**EXAM SESSION** 

08/08/2015 | Port Huron MI 48060-4014

Sponsor: Eastern Michigan ARC Location: St Clair County Library Time: 10:00 AM (No walk-ins)

Learn More

**EXAM SESSION** 

08/15/2015 | Flint MI 48507

**Sponsor:** The KT8Q & W8ACW VE Teams **Location:** Baker College of Flint-Tech Center

Time: 9:30 AM (Walk-ins allowed)

Learn More

**EXAM SESSION** 

08/15/2015 | Ionia MI 48846-8512

Sponsor: ICARPSC

Location: Ionia Central Dispatch Time: 6:00 PM (No walk-ins)

Learn More

EXAM SESSION

08/15/2015 | Jackson MI 49204-9999

**Sponsor:** Cascades ARS **Location:** Jackson District Library **Time:** 10:00 AM (Walk-ins allowed)

Learn More

**EXAM SESSION** 

08/19/2015 | Harrison Township MI 48045-650

Sponsor:

**Location:** Tucker Senior Center **Time:** 6:30 PM (Walk-ins allowed)

Learn More

**EXAM SESSION** 

08/19/2015 | Prescott MI 48756-9108

Sponsor

**Location:** Mills Township Hall **Time:** 7:00 PM (Walk-ins allowed)

Learn More

EXAM SESSION

08/22/2015 | South Lyon MI 48178

**Sponsor:** South Lyon Area ARC **Location:** Witch's Hat Depot **Time:** 9:00 AM (Walk-ins allowed)

**Learn More** 

EXAM SESSION

08/27/2015 | Battle Creek MI 49017-4867

Sponsor: SMARS

**Location:** Maple United Methodist Church **Time:** 7:00 PM (Walk-ins allowed)

**Learn More** 

EXAM SESSION

08/28/2015 | Owosso MI 48867-9999

Sponsor: Corunna VE Team

Location: Baker College Welcome Center

Time: 7:00 PM (Walk-ins allowed)

Learn More

# *\$\$\$*

## Stuff for Sale



If you have something to sell please send an email with the details to <a href="mailto:kevinboxey@hotmail.com">kevinboxey@hotmail.com</a> to be included in the Waveguide listing.



Don't forget to join your fellow hams on the LCARA nets

- Tuesday night at 8:00 pm on 146.620 with 100 Hz PL and
- Thursday night at 8:00 pm on 442.750 + with 123 Hz PL

L.C.A.	R.A. MEMBERSHIP APPLICATION
PLEASE PRINT:	
CALL SIGN:	NAME:
ADDRESS:	
CITY ,STATE, AND ZIP	):
PHONE :	LICENSE CLASS:
SKYWARN NO.:	RACES NO:
ARES MEMBER YES_	NO E-MAIL ADD.:
ARE YOU AN A.R.R.L.	MEMBER: YESNO
L.CA.R.A. MEMBERSI	HIP IS \$12.00 PER YEAR, RENEWABLE EACH YEAR
	T. FAMILY MEMBERSHIP \$20.00. ASSOCIATE
	IF YOU WISH AN AUTODIAL NUMBER FOR THE
REPEATER THERE IS A	AN ADDITIONAL \$3.00 CHARGE. Financing available.

## Lapeer County Amateur Radio Association

P.O. Box 12 Hadley, MI 48440-0012

### Lapeer County Amateur Radio Association

P.O. Box 12 Hadley, MI 48440-0012

## **Officers**

President: Kevin Boxey KB8TAR, 810-793-4986
Vice President: Tom Oliver KD8EBY, 810-247-3227
Treasurer: Bill Miller KD8VP, 810-797-5329
Secretary: Lee Dziekan N8LJ

## Committees and Appointees

Club Call Trustee W8LAP: Mike Zedan KN8Z
Repeater technical team: Lee N8LJ & Will KB8YGA
Skywarn Coordinator: Tom Oliver KD8EBY
Meeting Refreshments: Bill Miller KD8VP
Newsletter Editor: Kevin Boxey KB8TAR
Net Manager: Tom Oliver KD8EBY
Testing Coordinator: Volunteer needed

County EC: Tom Oliver KD8EBY County AEC: Kevin Boxey KB8TAR County AEC: Joe Medved KD8CIL

