

# Waveguide

**W8LAP / r**

146.620 - 100 Hz

442.750 + 123 Hz

**Lapeer County Amateur Radio Association**

Club Founder: Hollis Hayes W8ACD

Edition for **July 2014**

**\*\* The next regular club meeting will be held on Tuesday,  
July 8th, 2014 @ 7:30 pm \*\***

## 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 [kevinboxey@hotmail.com](mailto:kevinboxey@hotmail.com). The deadline for submission is the 20<sup>th</sup> of each month.

Website: <http://www.w8lap.com>

Facebook: Lapeer County Amateur Radio Association

## *Editorial Section*

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### The President Says:

Hello all. I hope everyone had a productive and enjoyable field day. The weather was a little moist. However, without the sun it was comfortable.

At the June meeting we decided to start taking officer nominations in July (in addition to August) for the elections at the September meeting. This is due to very little business being conducted at the outdoor meeting in August. The point is that I currently am both president and Waveguide editor and I will be giving one of them up for next year. Doing both is a little too much for one person.

Also, Lee N8LJ will be giving the presentation at the July meeting.

See you soon.  
Kevin

### The Treasurer Says:

Greetings to one and all.

By the time your read this, ARRL Field Day will have come and gone. I hope that some of you try to participate. I miss not doing so myself, but alas I guess I am getting too old to put one on for the club now days. Even if you miss F. D. please try to volunteer for Independence Day Operation Care. Doing so is what keeps our club dues low. Three cheers to all the volunteers.

The treasury is in good shape, as there has been no major expenses for the last month. Just the usual electric and PHONE bills (emphasis intended). Hopefully we will be able to eliminate the phone bill someday soon.

All that said, please all of you have a safe holiday.

Respectfully submitted,  
William Miller KD8VP Treasurer

## Editorial Section

### The Trustee Says:

Hello W8LAP Supporters:

There have been no issues that involve the trustee administration function.

The Tech Team mounted and connected the DTMF\* decoder to a receiver in the repeater shack, as well as the load relays. Two components controlled OK at close distance. Long distance tests are in the works.

\* Dual Tone Multi-Frequency signaling. These are the tones heard when pressing numbers on a telephone number pad.

### This month's Sites:

#### *Lightning (Part One)*

We all know the destruction lightning can do, after our repeater's damage in 2013. This kind of activity can be even worse if you happen to be home when lightning strikes nearby, as happened to a Muskegon County woman this year. ([Click for more](#)) In fact, a similar strike occurred at a club member's (Ed - W8NCJ) place a few years ago. There were no injuries, but Ed lost several electrical items to the strike, including his Ham transceiver.

Lightning surges can also get in from outside antennas, such as used by TV and Hams. Someone asked about this on one of the Ham reflectors recently. The questioner wanted to know if there is a reliable way to determine if lightning was striking in the area so Ham antennas could be disconnected. This person gets infrequent lightning activity, and didn't want to be "bothered" by disconnecting equipment unless lightning is imminent.

The web provides many sources for monitoring lightning activity. Two are The Weather Underground, and StrikeStar ([Click for Weather Underground, StrikeStar](#)). There are probably apps for those who have smart phones.

The above might be alright if one is at home, and on the web. If one is in a farm field, out golfing, or fishing, getting a web connection may be impossible. Since lightning can strike up to 40 miles from a thunderstorm, as I've seen so on the lightning plot maps, one might consider a personal lightning detector.

Personal lightning detectors run the gamut from home-made, through commercially manufactured. There are many schematics for making basic detectors on the web. There is also a kit available from Electronic Goldmine ([Click here](#)) that is a basic wide band RF receiver. I have a one of these, and, although primitive, it gives indications of strikes. I use it to demonstrate electromagnetic radiation, using a barbeque spark igniter.

More sophisticated devices than the Goldmine kit can be made, using a newly developed ([Click here](#)), high tech chip, and an Arduino microprocessor. The AS3935 was developed specifically for lightning detection and ranging. ([Click for item 1, item 2, item 3](#))

Lastly, one can purchase many types of detectors. Amazon.com is one source. ([Click here](#)) The Acu-Rite 02020 may use the AS3935, while the others have been on the market for some time, cost more, and are only a few steps removed from the Electronic Goldmine kit.

Next month will include information on world-wide lightning density, NASA tests, and more.

73 All,

Mike, KN8Z (kn8z at arrl.net)

## *Editorial Section*

### The Secretary Says

The meeting was called to order @7:30 pm with the Pledge of Allegiance and introduction of members and guests.

Hospital report: Flo had a knee replacement and is doing well. Lee N8LJ made a motion to get her flowers. The motion was seconded by Dan KC1BUD and the motion passed. Bill KD8VP will purchase the flowers for a reasonable cost and deliver them.

Community Service: Big Fish Triathlon had 5 operators along the bike route and we could have used 10 for better coverage. The July 4<sup>th</sup> Operation CARE is coming up and the website should be operational so sign up for a spot.

Secretary's report was read by Jamie KC8PMW. Dan KC1BUD made a motion to accept as read and Dick KC8VHA seconded. The motion passed.

Treasurer's report was read by Bill KD8VP. Dick KC8VHA made a motion to accept and Dan KC1BUD seconded. The motion passed.

Trustee's report: They are going to put in hardware to try and eliminate the phone line. The hardware has passed all tests but has yet to be hooked up in the repeater shack and tested there. They are also going to rewire the power input circuit so that if we lose either AC or 12 volt it will automatically switch to battery.

Proceeds from the Memorial Day Operation CARE were given to the treasurer but they have not been counted yet.

#### Old Business:

There is no information on the linking of the repeaters.

The EOC station antennas are gone; Motorola took them down along with the coax. The EOC is working with Motorola to get them back up. Bill KD8VP suggested that we have alternatives such as putting up a small tower of our own or putting together a satchel repeater if there is a problem getting the antennas back.

The Midland Swap is June 14 and Field day is June 27-28 in Otter Lake. More info in June's Waveguide.

#### New Business:

Lee N8LJ transmitted from the Valley Camp. 2095 contacts were made with a team of 8. He will do a presentation next month about the experience.

Bill KD8VP made a motion to compensate future speakers that have a long distance to travel for mileage expenses. Dan Kc1BUD seconded and the motion passed.

Break was from 7:53 to 8:05

Joe N8OSL gave a report on what is going on in District 3:

They are working on getting packet up and running in each county. Everyone has equipment. They want to use either a 220 or 440 backbone system for packet to get from North to South and vice versa and also to get directly into the State system. The Northern counties use 09 and the Southern counties (Midland and South) will have to use another frequency.

They want to get all counties up and running in Digital mode. There is a training net every Sunday night at 8pm on 3583 upper side band using FL Digi and Olivia 8500. If using FL Digi, make sure to download the latest version so that you can download messages directly into your files without having to cut and paste.

Tuesday at 9 p.m. on the Bay City Repeater (145.31 with a 131.8 pl) there is a traffic net for district news.

Lee N8LJ asked about needing background checks for ARES and RACES. Joe N8OSL confirmed that to work RACES for emergency communications, you need to take 100 and 700 and have a criminal background check. There was a problem in the district with a pedophile working communications in a shelter.






Kevin KB8TAR made a motion to start accepting officer nominations in July as well as August since we usually have our August meeting in the park. Dan KC1BUD seconded and the motion passed.







50/50 was won by Mike KN8Z. Mike KN8Z made a motion to dismiss and Dan KC1BUD seconded.

The meeting ended at 8:23 p.m.

Acting Secretary, Jamie Boxey KC8PMW

2014 2014 2014 2014 2014 2014 2014 2014 2014

July						
Sun	Mon	Tue	Wed	Thu	Fri	Sat
		1 ARES net 146.620+ 100 Hz PL at 8 pm	2	3 	4 	5 LTZ test 1:00 pm 
6 	7	8 LCARA club meeting 7:30 pm at the EOC	9	10 ARES net 442.750+ 123 Hz PL at 8 pm	11	12
13 -ARPSC @ 5:00 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	14	15 ARES net 146.620+ 100 Hz PL at 8 pm	16	17 ARES net 442.750+ 123 Hz PL at 8 pm	18	19 -T&C SWAP 18MARC 
20 -ARPSC @ 5:00 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	21	22 ARES net 146.620+ 100 Hz PL at 8 pm	23	24 ARES net 442.750+ 123 Hz PL at 8 pm	25	26 SWAP - LANSING
27 -ARPSC @ 5:00 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	28	29 ARES net 146.620+ 100 Hz PL at 8 pm	30	31 ARES net 442.750+ 123 Hz PL at 8 pm		
Phases of the moon: 5:☉ 12:☽ 18:☾ 26:☀						
Holidays and Observances: 4: Independence Day						

August						
Sun	Mon	Tue	Wed	Thu	Fri	Sat
					1	2 LTZ test 1:00 pm
SWAP - LANSING -ARPSC @ 5:00 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	4	5 ARES net 146.620+ 100 Hz PL at 8 pm	6	7 ARES net 442.750+ 123 Hz PL at 8 pm	8	9
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31 						
Phases of the moon: 3:☉ 10:☽ 17:☾ 25:☀						

2014 2014 2014 2014 2014 2014 2014 2014 2014

## Public Service events outside of Lapeer County

### GENESEE

- Atwood races, July 19<sup>th</sup>. Frequency 147.260 pl 100.
- Crim races, August 23<sup>rd</sup>. Meet at Vogt's flowers at 5:30 am. Frequency 147.260 pl 100.



*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

*Public service event: Here are a few scenes from the Big Fish Triathlon finish line.*





## 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.

This year - 16-17 August 2014 - Duration 48 hours from 0001 UTC 16.8.2014



*The July club presentation will be from N8LJ.  
Lee will be sharing his recent experience  
operating on the museum ship Valley Camp  
located in Sault Sainte Marie, Michigan.*



### Public Service Event Schedule

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

July 4<sup>th</sup> Op CARE - 3 to 6 July 2014

Atwood race (Genesee) - 19 July 2014

Crim 10 mile race (Genesee) - 23 Aug 2014

Labor Day Op CARE - 29 Aug to 01 Sept 2014



## Information for ARES work

Communications Unit Recognition Guidelines

State of Michigan

### 16. Appendix C: Glossary of Terms and Acronyms

	Definition
AUXCOMM	Auxiliary Communications
CASM	Communications Assets Survey and Mapping Tool
COMC	Communications Coordinator
COML	Communications Unit Leader
COMT	Communications Unit Technician
COMU WG	Communications Unit Working Group
DEM	Division of Emergency Management
EMHSD	Emergency Management and Homeland Security Division
EMAC	Emergency Management Assistance Compact
ESF	Emergency Support Function
FEMA	Federal Emergency Management Agency
GIS	Geographic Information System
IAP	Incident Action Plan
ICC	Incident Communications Center
ICS	Incident Command System
INCM	Incident Communications Center Manager
L/T IMT	Local / Tribal Incident Management Team
MPSCIB	Michigan Public Safety Communications Interpretability Board
MPSCS	Michigan Public Safety Communications System
NIMS	National Incident Management System
NWCG	National Wildfire Coordinating Group
OEC	Office of Emergency Communications
PS Tools	Public Safety Tools
PTB	Position Task Book
QA	Quality Assurance
RADO	Radio Operator
SATCOM	Satellite Communications
SOG	Standard Operating Guidelines
SWIC	Statewide Interoperability Coordinator
TERT	Telecommunicator Emergency Response Taskforce
THSP	Technical Specialist
MI	Michigan



## Hamfest information



HAMFEST/CONVENTION  
**07/19/2014 | GMARC Trunk Swap**  
 Location: Shelby Township, MI  
 Type: ARRL Hamfest  
 Sponsor: General Motors Amateur Radio Club  
 Website: <http://gmarc.org>



HAMFEST/CONVENTION  
**08/03/2014 | Seaway Trunk Swap**  
 Location: Port Huron, MI  
 Type: ARRL Hamfest  
 Sponsor: Eastern Michigan Amateur Radio Club



HAMFEST/CONVENTION  
**09/14/2014 | Adrian Hamfest**  
 Location: Adrian, MI  
 Type: ARRL Hamfest  
 Sponsor: Adrian Amateur Radio Club  
 Website: <http://www.w8tqe.com/>



HAMFEST/CONVENTION  
**07/26/2014 | 2014 CMARC OUTDOOR HAMFEST**  
 Location: Lansing, MI  
 Type: ARRL Hamfest  
 Sponsor: Central Michigan Amateur Radio Club  
 Website: <http://centralmiarc.com>  
[Learn More](#)



HAMFEST/CONVENTION  
**10/19/2014 | Kalamazoo HamFest 2014**  
 Location: Kalamazoo, MI  
 Type: ARRL Hamfest  
 Sponsor: Kalamazoo Amateur Radio Club & Southwest Michigan Amateur Radio Team  
 Website: <http://kalamazoohamfest.com/>  
[Learn More](#)



HAMFEST/CONVENTION  
**10/26/2014 | USECA Hamfest**  
 Location: Madison Heights, MI  
 Type: ARRL Hamfest  
 Sponsor: USECA Amateur Radio Club  
 Website: <http://www.usecaarc.com>

# 2014 LAPEER COUNTY TORNADO SIREN TEST SCHEDULE

If your community does not have a siren, or you cannot hear a siren, you may want to purchase a NOAA All Hazard Weather Radio.



If your community has a tornado siren, below are the dates that it will be tested:

- Saturday, **April 5<sup>th</sup>**
- Saturday, **May 3<sup>rd</sup>**
- Saturday, **June 7<sup>th</sup>**
- Saturday, **July 5<sup>th</sup>**
- Saturday, **August 2<sup>nd</sup>**
- Saturday, **September 6<sup>th</sup>**
- Saturday, **October 4<sup>th</sup>**

**All Tests Will Be Held At 1:00PM**

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 Should inclement weather be present at the time of testing, the test will be cancelled. If you have any questions, please contact your local fire department.  
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## Stuff for Sale

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- ICOM 706 MK II G, never been used mobile, separation kit still in box, extra power cord, connectors, fuses, manuals, and boxes. \$695
- CUSHCRAFT R-8 vertical antenna, 8 band (6,10,12,15,17,20,30,40 meters) with tilt over base & guy kit, used. \$275
- 40 meter ham stick rotatable dipole, never used. \$45
- Two on the glass 2 meter antennas, used. New installation kits installed for both. Both for \$50.
- MAHA model MH-C801D battery charger, eight cell, one hour charger, new. \$45

*I have used the 706 MK II G very little, never even put a frequency into the memory. Call Gary KA8RGT at 810-245-2480.*

*I am a Ham Radio Operator (KB8PNS). I now live in Port Sanilac. Do you know anyone (or your club) that would be interested in a 40+ Ft. tower. It is free to anyone that will take it down. We would need it removed in 3 to 4 weeks from now.*

*Best way to contact me is email [RCole@RC-HomeDesigns.com](mailto:RCole@RC-HomeDesigns.com) or house phone 810-622-9530 I do not have good cell service here but you can try 586-215-6113.*



*If you have something to sell please send an email with the details to [kevinboxey@hotmail.com](mailto:kevinboxey@hotmail.com) to be included in the Waveguide listing.*

**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: YES \_\_\_ NO \_\_\_

L.C.A.R.A. MEMBERSHIP IS \$12.00 PER YEAR, RENEWABLE EACH YEAR ON **OCTOBER. 1ST.** FAMILY MEMBERSHIP \$20.00. ASSOCIATE MEMBERSHIP \$4.00. IF YOU WISH AN AUTODIAL NUMBER FOR THE REPEATER THERE IS 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: Flo Haack KC8CAB, 810-793-2606

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: Joe Medved KD8CIL  
County AEC: Kevin Boxey KB8TAR



[WWW.ARRL.ORG](http://WWW.ARRL.ORG)