

# Waveguide

## Lapeer County Amateur Radio Association

P.O. Box 12 | Hadley, MI 48440-0012 | <http://www.w8lap.com>

Club Founder: Hollis Hayes W8ACD, SK



## LCARA FIELD Day 2016

Join your fellow hams in the **#1 amateur radio event of the year**—fun, food, and radio contacts in a relaxed environment.

**Details on page 14**

## The President Says

Hi Everyone,

I hope everyone is enjoying the beginning of summer. Our club has lots of activities planned for June, and I encourage you to participate when you can. We've just finished the first weekend of the summer with members participating in the Big Fish Triathlon and Operation CARE. We will have another Operation CARE on July 4th weekend around the time the July Waveguide comes out. We have Net meetings every Tuesday and Thursday on our repeater.

Our club meeting will be June 14th at 7:30 with Bill Demaray giving a presentation on vehicle Electromagnetic Compatibility. That should be another interesting presentation. On the 15th we have our monthly ARES meeting and on the 25th we have Field Day at Gerret's, KD8YUK place. So there's a lot of opportunities to find fellowship with other hams and expand your enjoyment of our hobby. Read on in this issue of the Waveguide for more details.

My wife and I just returned from my son's basic training graduation at Fort Sill, OK. He started AIT last week and they covered Comms. He loved it. He was never interested in ham radio when he was home, although he was invited to participate. So I've come to the conclusion that the best way to encourage our reluctant kids to enter the hobby



June 2016

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### W8LAP / r Repeaters

146.620 - 100 Hz

442.750 + 123 Hz

### Next Club Meeting

**Tuesday, May 10**

**7:30pm**

Lapeer County EOC

2332 W. Genesee Street

Lapeer, MI 48442

### ARES Net

Every Tuesday 8:00pm

146.620 - 100 Hz PL

### Thursday Night Net

Thursdays 8:00pm

442.750 + 123 Hz PL



is go drill instructor on them for ten weeks straight. Up at 4, give me 50 push-ups, run 2 miles, 10 minutes for breakfast..... move it, move it, move it!!! Learning a little about radios ain't such a big deal after all that. Anyway, it's all good and I'm really proud of him and we had a very nice trip and visit.

A special thanks to Lee for his presentation on the DXpedition to Christmas Island. As always, Lee's presentation was interesting and very well done.

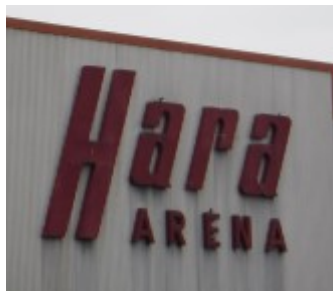
I look forward to seeing everyone at the meeting on June 14th. I think it will be very interesting to learn more about how vehicles are tested and hardened against electromagnetic interference, especially in this day when everything from your engine to your windshield washer has a micro-controller running it. See you on the 14th.

73

Gordon, KD8TXW

## View from the Veep Seats

Daniel, KE8CFI and I headed to Hamvention in May, riding down and back on the ARROW bus from Ann Arbor as previously advertised here in the Waveguide. This was our first trip to the center of the ham universe, and it did not disappoint. A few things stood out to me from the day, and I'll share them here in no specific order.



**Amateur Radio is a Small World.** It really is. According to the ARRL, there are roughly three quarters of a million amateur radio licensees in the United States. That sounds like a lot, until you consider there are that many Detroit Lions fans in the Detroit area, even if they won't admit it. We saw lots of "ham celebrities", and shook hands with a few. **Hams are the original Makers.** From that guy with the 19" whip antenna sticking out of his hard hat to the Swedish guy selling led name badges, to commercialized homebrew antennas, it was all there. **Forget London Bridge,** Hara Arena is falling down. I'd heard stories, of course, but wow, that place really is run down. I loved it though—it was a rambling assembly of buildings seemingly jammed together, gallery after gallery of our hobby. I'm smiling just remembering it. **Young Hams are the Future.** Nowhere was this more obvious than at the end of the day, the guy making a beeline across the food court to shake KE8CFI's hand first, and thank him for his interest

### Officers

#### President

Gordon Miller  
KD8TXW

#### Vice President

Gerret Peters  
KD8YUK

#### Treasurer

Bill Miller  
KD8VP

#### Secretary

Lee Dziekan  
N8LJ

### Committees and Appointees

#### Club Call Trustee W8LAP

Mike Zedan, KN8Z

#### Repeater Technical Team

Lee Dziekan, N8LJ

Will Stanton, KB8YGA

#### Meeting Refreshments

Bill Miller, KD8VP

#### Newsletter Editor

Gerret Peters, KD8YUK

#### Webmaster

David Erskine, KD8GXW

#### County EC

Kevin Boxey, KB8TAR

810-728-1481

#### County AEC—SkyWarn

Tom Oliver, KD8EBY

#### Operation Care

Tom Oliver, KD8EBY

in ham radio. Really nice guy, nice chat. Turns out it was Dave Collingham, who is a big DXer and writes for several periodicals. **Amateur Radio is a big, big hobby.** You might know this already, and then you might be new like me, and still learning. Either way, amateur radio is a broad and deep endeavor—lifetimes in either direction. If I learned nothing else from Dayton, I learned that there is a lifetime of learning available, if I'm interested. ay the (electromagnetic) force be with you, Gerret, KD8YUK

## The Treasurer Says

Greetings to one and all.

I hope this newsletter finds you able to excite the RF. As you read this Operation Care has been performed for the Memorial Day holiday weekend. As you must know by now that these volunteer weekends contribute to the clubs treasury, the bulk of our operating expense. Please participate!!!

The current treasury balance is in reasonable shape to carry on our operations through the summer. The only expense this month has been the electric bill for the repeaters and for Operation Care supplies.

Do not forget that the fourth weekend in June is Field Day weekend. Gerret Peters has volunteered to host the event at his house, so see him for more info.

Have a great summer, and enjoy radio.

Respectfully submitted,

William Miller, KD8VP

## Club Meetings

LCARA meetings are held the second Tuesday of each month at 7:30pm in the :

**Lapeer County Central Dispatch Center (911)**

**2332 West Genesee Street**

**Lapeer, MI 48446**

**All are welcome.**

## The Waveguide

The Waveguide is a monthly publication of the Lapeer County Amateur Radio Association. **Publication is free to all interested members of the public.**

## Free Waveguide Subscription

Email your name, call sign (if licensed), city of residence and email address to [KD8YUK@KD8YUK.ORG](mailto:KD8YUK@KD8YUK.ORG)

## Feedback Welcome

Feedback positive and constructive is welcome and may also be directed to [KD8YUK@KD8YUK.ORG](mailto:KD8YUK@KD8YUK.ORG)



Don't keep it a **SECRET!**  
Send your Hamfest finds and stories to the editor for an upcoming issue of the Waveguide!

[KD8YUK@KD8YUK.ORG](mailto:KD8YUK@KD8YUK.ORG)

## The Secretary Says

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### Lapeer County Amateur Radio Association

Meeting Minutes—May 9, 2016

The Meeting was called to order at 2330z by President Gordon KD8TXW. There were 16 members and guests in attendance.

#### Announcements

June meeting presentation will be by Bill Demery, EMC specialist from Nexsteer Corporation.

ARES monthly meeting is Wednesday May 18th at the EOC at 7:00 pm.

May 29th is the Big Fish Triathlon. Volunteers needed. Expected times are 8 am till about noon.

The FL digi net is held every other Thursday at 8:00 pm on 145.070 FM. It uses Olivia 8/500. See the Waveguide for the dates.

Memorial Day Operation Care volunteers are needed. Please use the W8LAP website to sign up for a time slot. This is the Associations only fund raiser. So please volunteer to help make it a success.

The W8LAP Field Day operation is coming. See the article in the May Waveguide. There will be more discussion at the June meeting.

Don't forget the Museum Ship's Weekend operating event on June 4th & 5th. Awards are available. [www.nj2bb.org/museum/](http://www.nj2bb.org/museum/) and your Michigan Team <http://dualdisasters.com/>

**Hospital Report:** no one is ill

**April Meeting Minutes:** approved by the membership present

**Treasurer's Report:** approved by the membership present

**Trustee Report:** [a non-licensed call sign] was reportedly heard on the repeater system. Best practice is to ignore the person using this call.

The Presentation of the evening, fresh from its Premier at the Visalia, California DX convention, was "Sand, Surf, and Friends, DXing at T32 Christmas Island", presented by T32LJ. It demonstrated the trials and tribulations of traveling to, and operating from a rare tropical island in the Pacific Ocean.

**Ask Elmer Session:**

Lightning mitigation was discussed. Best solution so far is to complete-

### Join Your Fellow Hams

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

**Tuesday Night at 8pm**

On 146.620- with 100 Hz PL

**Thursday Night at 8pm**

On 442.750+ with 123 Hz PL

### Newsletter



Items for the newsletter may be emailed to the editor at [kd8yuk@kd8yuk.org](mailto:kd8yuk@kd8yuk.org), or phoned / texted to 248-921-5398.

Items must be received by the 20th of each month to be considered for inclusion in the following month's edition.

ly disconnect your station from the antennas and power source during a storm. Ground rods by themselves do not guarantee any type of protection.

Kevin KB8TAR requested more information regarding the use of co-ax stubs for interference mitigation. (ed. note: your leadership team will work diligently to find a knowledgeable presenter)

**Old Business:** The Association may need to replace the roof on the repeater shack.

Meeting adjourned at 0052z May 10th.

Respectfully submitted

Lee

N8LJ

## The Trustee Says

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Hello W8LAP Supporters,

There were no technical problems with the repeater this month, or any matters concerning use of the W8LAP club call (see below).

The winterizing configuration in the repeater shack was removed in mid-May, and the grass in the enclosure fence was mowed. .

### Repeater Shack Roof

The roof is showing advanced age, and should be replaced before water enters the structure. Calculations show that the total area is 129 square feet. Using the standard rule that a bundle of shingles covers about 33 ft<sup>2</sup>, the job will need four bundles. The average cost of good grade shingles is about \$25/bundle. Thus, with a small roll of underlay material, the replacement should be in the \$100 range.

Labor to install the new material should take two or three hours if no deteriorated areas show on inspection. Removing the old material is, in my opinion, mandatory for two reasons: First, this allows inspection for deteriorated areas (these don't hold nails very well). Secondly, the new material installs easier, and looks better, with no previous roofing to get in the way.

Two or three people should be sufficient to complete this job. In fact, I would do it solo, if my back could handle it. A few extra people (at least one without physical limitations) will make things go faster, by having someone to do the



"hand me" work, and another to supplement this, and be available to chase material.

## Repeater Coverage

As this is written, two incoming messages mention that "the repeater is not working very well." That may be true, but also reading that the repeater identification and messages are full quieting at the areas in question, brings up other possible issues. What may also be true is that some users are trying to work the repeater with a hand-held unit from inside a vehicle, or are using a stock "rubber ducky" antenna. Also, there may be some users that are not using their microphones correctly, speaking too softly, or have misadjusted deviation.

To be clear, the above mention of possible user issues is NOT to shift the blame for weak signals away from the repeater. There may well be something happening at the repeater site, but reports, such as the "repeater not working very well" lend nothing to getting at root causes. In other words, to take an axiom from the world of quality professionals: "Without data, you're just another opinion."

The Tech Team has a plan to address the above. The first phase will start at the repeater site. The reason is that it is very easy to verify whether that part of the system is within its operating parameters.

Once the repeater site parameters are verified, or remedied, then we will conduct field strength tests in various parts of the county to determine possible problem areas.

After the Tech Team has conducted the above tests, and gathered empirical data, the process will focus on specific problems that individual users are experiencing. This may be the most tedious part of getting to the root of any problems. At this point users will have to give the Team specific details about their difficulties.

Users can help with determining issues by not waiting until they see a member of the Team to relay vague symptoms. If you are having problems, please get a message to me. I might ask you many questions that you may find are bothersome, but this information will contribute to the data gathering requirements. Look to future editions of the Waveguide to learn how the tests are going.

See you at the next meeting,

Mike, KN8Z (kn8z at arrl.net)

## Volunteer Project

### Mission

Repair the repeater shack roof

### Time Commitment

A Few Hours

### Skills Needed

If you know how to repair a roof, great! Pairs of hands are also needed and welcome.

### How to Volunteer

Contact Mike Z. at the address below. As soon as a few people are on board, coordination of the activities will begin.

kn8z at arrl.net



# Lapeer County Emergency Coordinator / Radio Officer Report

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## EC Report for May

Thank you to everyone that supported the Big Fish Triathlon event over Memorial Day weekend.

**KC8PMW, N8LJ, KB8UIH, N8OSL, KB8YGA, KD8EBY, KC8VHA, KD8YUK, N8LBF, & KD8ZXV.**

Please note that Dave (N8LBF) and Chris (KB8UIH) drove all the way down from Midland County and Joe (N8OSL) came over from Genesee County to lend a hand.

Before the event started, the owner of 3 Disciplines came over to me at the start / finish line and personally thanked me for being there. He knows about amateur radio and truly appreciates us being there to help keep an eye on things.

As a reminder, our June ARES meeting will be held at 7:00 pm in the EOC on Wednesday, June 15th.

If you are interested in EmComm work please stop by and see what the team is working on.

Kevin KB8TAR

EC/RO Lapeer County

## Volunteer Opportunity—Health Dept.

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The [Lapeer County] Health Department is conducting an exercise related to medication dispensing plans. The plan is to conduct the exercise on Wednesday, **June 15th from 2-3 pm.**

One of the challenges is to have sufficient numbers of vehicles participate to simulate a real event. If you are available and interested in participating, it will help them meet their exercise objectives. Contact Kevin Boxey, who can direct you to the Health Department coordinator.

Note for the Obvious: The exercise will be dispensing **candy**, not actual medicines.



### ARES Training Program

**Wed, 6/15—ARES Meeting  
7pm at the EOC**

### Interested in ARES?

If you're interested in **emergency communications** and the Amateur Radio Emergency Service, you are welcome to:

- ◆ come by the team meetings (schedule above), or
- ◆ contact EC/RO Kevin Boxey, KB8TAR directly, or
- ◆ Join one of the club's VHF/ UHF ARES nets on Tuesdays or Thursdays.

Find contact and net information on the front page of the Waveguide.

# Request Help from Fixed Station Hams with Directional Antennas for RDF Tracking of School Balloons

Midland High School and Midland's North East Middle School will jointly launch their school club balloon projects **Friday morning, June 17**, from the Midland area. Hams with directional antennas from fixed locations, such as at a home station, are requested to provide real time RDF tracking data to help us monitor flight path and landing location. Each balloon will have an APRS transmitter and a fox beacon transmitter (data below). Early flight computer model projections show a flight path of about 60 miles easterly, with a projected landing area somewhere in the Unionville area (northwestern Thumb, east of Bay City). Weather conditions, such as wind direction and speed (shear) aloft have been unsettled lately, so more accurate model results will be available nearer to the launch time.

Both the Midland High School (MHS) balloon and the Northeast Middle School (NEMS) balloons will be launched simultaneously from the same launch point. Each balloon will have a unique APRS identifier and a unique fox beacon transmit frequency. We anticipate that both balloons will fly together, but that may not be the case in reality – be prepared for and plan on measuring two sets of fox beacon signals, which may or may not be coincident in space, when doing RDF.



RDF (radio direction finding) tracking data from fixed stations will be important for following the path of the balloons in flight. If you will be a fixed station, maybe at your home, plan on communicating your location in latitude and longitude coordinates (for instance, my home, just south of Midland, is at latitude 43 degrees 34 minutes 45 seconds – 43° 34' 45" – and longitude 84° 16' 40"). For ease and consistency of mapping, please report your location using this lat and long format. We will also need your bearing, or compass direction reading, to the fox signals on the balloons; you can do this by taking a compass bearing showing the precise direction that your directional (ie, beam Yagi or other) antenna is pointing (accuracy counts!). We will also need the accurate time that your bearing was taken; since the balloons will be in flight, its location at any point along the flight path is time dependent. Remember, report location in latitude and longitude, degree-minute-second format, compass bearing to best or strongest balloon fox signal, and the time that the measurement was taken.

*Continued on next page.*

## LCARA Packet BBS

### At the Repeater Site:

Frequency: 145.030 MHz

Node Name: LCARA

PBBS: W8LAP-4

### At the Lapeer County EOC

Node Name: EOC44

PBBS: W8LAP-3

### At KB8YGA's QTH in North Branch

Node Name: NORTHB

PBBS: KB8YGA-3

## Seeking Old Waveguides

Gerret, KD8YUK continues to look for issues prior to 2004 for a newsletter history project. Clean out your shack and help the club at the same time.

You can also loan a copy to Gerret, who will gently scan it and return the original to you in fine condition.

Contact Gerret at  
[KD8YUK@KD8YUK.ORG](mailto:KD8YUK@KD8YUK.ORG)



### **RDF Balloon Tracking, continued.**

Reporting will be done to a radio net control station (NCS) on the Bay City 145.31 – (131.8 PL) 2m repeater (given the latest model results on direction of flight). With acceptance from the Repeater Trustee, we will run an open net while the launch, flight, and recovery operations are in effect (about 2-4 hours, hopefully). The NCS operators will record your call, your location in lat-long coordinates, your compass bearing to each balloon fox beacon signal, and the time of your measurement. A Track Analyst will plot the received RDF information and help vector mobile stations, with students and teachers, to the landing area for Recovery.

The NEMS balloon will be APRS-designated as N8ERF-11, with 500 mW beacon output power, and the MSH balloon will be APRS-designated as W8MHS-11, also with 500 mW power out. The NEMS balloon's fox beacon signal will be 146.565 MHz, at 300 mW power out. The MSH balloon's fox beacon signal will be 146.400 MHz, also at 300 mW power out.

Friday, June 17, is our preferred date for the balloon launches. We will need to have less than 50% cloud cover and mild wind speeds on the date of the launch to ensure a safe and predictable flight (ie, no person or property endangered, compliance with FAA regulations, and successful recovery of landed balloons and payloads). In the event of a launch scrub, it will be communicated on Friday or Saturday via e-mail and on the repeater.

IMPORTANT – I will send out a similar e-mail message, via your ARES/RACES leaders, on Friday, June 3, via District 3 ARES, with:

- the latest, most reliable flight prediction results, including expected launch and predicted landing area locations,
- the expected launch time

If you are definitely interested in participating as a RDF station for Saturday's launch, please e-mail me at [dwallick@chartermi.net](mailto:dwallick@chartermi.net) and I will send you e-mail updates directly.

**EQUALLY IMPORTANT** – the balloon launches reflect a great deal of work and learning by students at MHS and NEMS. It is their project; we are assisting them. Foremost, as much as possible, allow the students themselves to recover the balloons and payloads on landing. The sole exception would be if the balloons come down in a hazardous area, like in the middle of a road. In this case, just move the balloon(s) and payload(s) off of the road to a safe location, but allow the students to open the payload when they get to the landing location. If you happen to come across the balloon(s) and payload(s) after landing, please call in the location to the NCS so that the students can be vectored to that location. Alternately, contact info for Project Director, Dennis Klipa, N8ERF, will be printed on the outside of the payload box (white foam coolers), or contact me (my contact info is below).

Thank you to all participating hams,

Dave Wallick, N8LBF

School Balloon Launch - Logistics Chief & Comm Unit Lead, Recovery Branch Dir

e-mail contact: [N8LBF@arrl.net](mailto:N8LBF@arrl.net)



### FL-DIGI—Digital Mode Software

Contributed by Kevin, KB8TAR; and Gerret, KD8YUK

If you're interested in operating digital modes, FL-Digi is a great tool to start with. It stands for Fast, Light, Digital Modem Software, and was developed by W1HKJ and others.

Whether you're a member of the ARES team, or just interested, you'll want to keep up with the latest version of the software and its add-on packages FL-Wrap and FL-Msg.

The software is downloadable from SourceForge here:

<https://sourceforge.net/projects/fldigi/files/>

You can learn more about FL-Digi here:

<http://www.w1hkj.com/>

Note: FL-Digi's latest version as of this publication is **3.23.10**.

### Detecting motion with an Arduino and two wires // Arduino Blog

Contributed by Gerret, KD8YUK

Connor Nishijima has come with a unique way to detect motion using an Arduino Uno. The active media developer is polling an ADC pin with a pair of wires twisted tightly together — one plugged into A3, another plugged into ground — and generating readings whenever a large living object (like his two cats) is nearby.

“The closest I have ever come to explaining this is capacitive coupling. So what it is is the antenna is leaching a little bit of electricity off you, and you are leaching a little bit of electricity from the antenna. The differential that happens when you move around is what the Ar-

duino is picking up.”

He's calling this effect “Capacitive Turbulence,” and so far he's only got it work on the Arduino, no luck using other boards with ADCs. You can watch him explain this magical phenomenon in more detail below! Source: <https://blog.arduino.cc/2016/05/24/detecting-motion-with-an-arduino-and-two-wires/>

### Portable Solar Power—A Primer for the Radio Amateur

Contributed by Gerret, KD8YUK

Jeremy, KF7IJZ is a ham operator who conducted a presentation on all the elements of solar power for portable ham ops—specifically with emergency communications (emcomm) in mind. This YouTube video is a narrated PowerPoint, and it's just over an hour long. Normally that would be two strikes, but this video is **pure gold**. If you are interested in solar for radio, and know very little about it, this is a great place to start.

<https://www.youtube.com/watch?v=8SuvAKZtoVs>

### Podcast: Ham Radio 360

Contributed by Gerret, KD8YUK

This podcast just rebranded from its old name, “The Fo Time Podcast” to better reflect its focus on all 360 degrees of the Amateur Radio hobby.

<http://hamradio360.com/>

## Upcoming Club Meetings & Events

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### Tea & Crumpets

After a lengthy hiatus, this **3rd Saturday** morning of the month (8am) offers an opportunity to gather with your fellow hams. Join the crowd at the McDonald's on M-24 in Lapeer, just south of the bridge.

### June

**Bill Demaray**, Quality Supervisor for the Electromagnetic Compatibility Laboratory at Nexteer Automotive provides a presentation on electromagnetic vehicle compatibility testing.

### July

**Club Field Day wrap-up**—share your stories, your photographs, what went well, and see what you missed if you couldn't make it.

*Wait, what? Field Day? Yes! LCARA is going to host a Field Day at KD8YUK's homestead this year—just about six acres of open space, prime for a field day antenna farm and some good eating!*

### August

Annual club Picnic in the Park. More to come as we get closer to the picnic.

### September

Tentative—Adventures in Hawaii

### October

Tentative—Member Projects Show & Tell

### November

Currently Open

**Have a topic you'd like to present? You might**

**be in luck—September, October, and November are still open, and of course December is the club Christmas party.**

### December

The LCARA Annual Christmas Party

And then we're off and running in 2017!

### The Return of Tea & Crumpets!

After a construction hiatus, rejoin your fellow hams on the 3rd Saturday of each month, at the McDonald's M-24 location (just south of the bridge).

Show up around 8am for some casual conversation and catch-up. All are welcome!

Contact Chris Azelton, KC8TWL for more information at (810) 338-0020.

# June 2016

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## 2 THURSDAY

8:00PM FLDIGI Net 145.07 ARES

## 4 SATURDAY

Museum Ships Weekend (See 'Heard on the Wire')

## 5 SUNDAY

Sunday Nets (see sidebar)

Museum Ships Weekend (See 'Heard on the Wire')

## 7 TUESDAY

8:00pm ARES Net

## 9 THURSDAY

8:00pm ARES Net

## 12 SUNDAY

Sunday Nets (see sidebar)

## 14 TUESDAY

7:30pm LCARA Club Meeting

## 15 WEDNESDAY

7:00PM ARES Team Meeting @ EOC

## 16 THURSDAY

8:00PM FLDIGI Net 145.07 ARES

## 18 SATURDAY

Tea & Crumpets Returns

8AM, McDonald's on M24 in Lapeer

## 19 SUNDAY

Sunday Nets (see sidebar)

## 21 TUESDAY

NO NET—Field Day is this weekend.

## 23 THURSDAY

NO NET—Field Day is this weekend.



## 25 SATURDAY

2016 FIELD DAY (See next page)



## 26 SUNDAY

2016 FIELD DAY (See next page)

## 28 TUESDAY

8:00pm ARES Net

## 30 THURSDAY

8:00pm ARES Net



## LCARA Nets - on W8LAP Repeater

Tuesdays, 8pm

146.620- with 100 Hz PL

1st & 3rd Thursdays, 8pm

Digital Training Net (Olivia 8/500)

145.070 Simplex

2nd & 4th Thursdays, 8pm

On 442.750+ with 123 Hz PL

## Sunday Nets

ARPSC - 5pm

3.932 LSB

District 3 Net - 6:30pm

145.31+ 131.8 Hz PL

District 3 Digital Training Net - 8pm

3.583 USB

## Tea and Crumpets

3rd Saturday of each month

8am

Lapeer McDonalds on M24

Just south of the bridge



# July 2016

SUN	MO	TUE	WE	TH	FRI	SAT
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
31						

## July Events

- 1-4—Operation CARE. See w8lap.com for details
- 3—Sunday Nets
- 4—Independence Day
- 5—Tuesday ARES Net 8pm
- 7—Digital ARES Net 8pm
- 10—Sunday Nets
- 12—Club Meeting 7:30pm EOC
- 14—Thursday ARES Net 8pm
- 16—Tea & Crumpets 8am
- 17—Sunday Nets
- 19—Tuesday ARES Net 8pm
- 21—Digital ARES Net 8pm
- 24—Sunday Nets
- 26—Tuesday ARES Net 8pm
- 28—Thursday ARES Net 8pm

## LCARA Nets - on W8LAP Repeater

### Tuesdays, 8pm

146.620- with 100 Hz PL

### 1st & 3rd Thursdays, 8pm

Digital Training Net (Olivia 8/500)  
145.070 Simplex

### Thursdays, 8pm

On 442.750+ with 123 Hz PL

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145.31+ 131.8 Hz PL

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3.583 USB

## Tea and Crumpets



3rd Saturday of each month  
8am

Lapeer McDonalds on M24  
Just south of the bridge

# Field Day 2016

## June 25-26

### LCARA is hosting a club Field Day

The LCARA club event will be a “vacation style” gathering, with as much operating as we can, but plenty of time for campfire chat and good cheer. All club members are welcome.

### Location and Amenities

Gerret, KD8YUK (your author) will host the event at his QTH in Metamora Township. Just north of the Oakland County Line, the location is just under six acres of gently rolling open field, with scattered trees well-suited over which to pitch a wire.

There’s room to park on the grass, and operating stations are planned for setup in the pole barn, which has power, light and a concrete floor, to blunt the effects of inclement weather. The site elevation is about 1,080’.

**5885 Thomas Road, Oxford MI. 48371**

**Gerret Cell: (248) 921-5398**

Will also be listening on the 2m repeater.

### SETUP—Friday 6/25 4pm

We’ll be setting up 3 operating stations running from 3 dipoles. **Come by to help set up, volunteers wanted.**

### Finish Setup—Saturday 12pm-2pm

Any last minute setup items, test out the computers for logging with N1MM+, stock the coolers with ice.

### Field Day Operations— Saturday 2pm to Sunday 2pm

Station 1—Dedicated 20 meters

Station 2—Dedicated 40 meters

Station 3—Split between 80/10/15 as conditions permit

**We are in need of transceivers (and accessories) for the stations, antenna masts and dipoles. If you have a station and/or antenna set you can set up for the event, please let Gerret know ASAP.**

**We also need 3 Windows computers to run the N1MM+ logging software. (If you’ve figured out how to run N1mm+ under Linux, call Gerret)**

If you’re interested in running a GOTA station, VHF, or Satellite, bring it!

### Potluck Dinner—Saturday 7pm or so

Informal affair, bring something to throw on the large gas grill or a dish to pass. Weather depending, we can have a fire in the fire pit.

### Breakfast—Sunday Morning

For those stalwart operators staying late or coming early, a farm-fresh breakfast from the XYL’s kitchen with eggs, pancakes, bacon and/or sausage, and coffee. Makes you want to run a transceiver all night, doesn’t it!?

### Teardown—Sunday 2pm

Time to take it down until next year—**volunteers needed for teardown!**



## Lapeer County Tornado Siren Testing Schedule

Contributed by Mary Piorunek,  
Lapeer County Emergency Manager

*This information will run monthly throughout the testing season.*

If your community has a tornado siren, it will be tested on the following dates:

**Saturday, July 2nd**

**Saturday, August 6th**

**Saturday, September 3rd**

**Saturday, October 1st**

All Tests will be held at 1:00PM



*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.*

## Independence Day Operation CARE



Memorial Day is just barely in the rear-view mirror, and Independence Day is coming up quick! Thanks to all the volunteers who made the weekend a success.

Be sure to check out the Operation CARE page at <http://www.w8lap.com> to view the specific dates and times for the 4th of July weekend. Volunteering for a shift or few is a great way to get to know your fellow hams and support the club. It's also an opportunity to spread the good word about Amateur Radio.



For those new to the club, LCARA operates a refreshment station at the east-bound rest area just east of Wilder Road on I-69. We offer several non-carbonated beverages and hot coffee to people traveling during the Memorial Day holiday.

Enjoy a good connection to the club repeater via the radio in the trailer, along with an endless supply of coffee, tea, and Tang-esque orange drink!

The duty is easy, mostly seated, and the travelers are both interested and interesting. If **you've never done it before, have no fear!** Partner up with a veteran club member and enjoy a few hours of conversation with your fellow hams and weary travelers.

If you have questions about the club's participation, contact **Tom Oliver, KD8EBY** ([kd8eby@gmail.com](mailto:kd8eby@gmail.com))

To learn more about CARE (Combined Accident Reduction Effort), visit the website: <http://www.careofnorthamerica.org/About/>

## Upcoming Hamfests, Swaps, and other Events

### Midland Hamfest

**Start Date:** 06/18/2016

**End Date:** 06/18/2016

**Location:** Salvation Army Building  
330 Waldo Avenue  
Midland, MI 48640

**Website:** <http://w8kea.org>

**Sponsor:** Midland Amateur Radio Club

**Type:** ARRL Hamfest

**Talk-In:** 147.00

**Public Contact:** Pat Russell, W8PMR  
4451 East Wise Road Freeland, MI 48623  
Phone: 989-832 2924  
**Email:** [chuck.cribley@live.com](mailto:chuck.cribley@live.com)

### Monroe Hamfest

**Start Date:** 06/19/2016

**End Date:** 06/19/2016

**Location:** Monroe County Fairgrounds  
3775 South Custer Road  
Monroe, MI 48161

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

**Sponsor:** Monroe County Radio Communications Association

**Type:** ARRL Hamfest

**Talk-In:** 146.72/12 (PL 100)

**Public Contact:** Fred VanDaele, KA8EBI  
4 Carl Drive Monroe, MI 48162  
Phone: 734-652-3843  
**Email:** [ka8ebi@yahoo.com](mailto:ka8ebi@yahoo.com)

### 2016 CMARC OUTDOOR HAMFEST

**Start Date:** 07/30/2016

**End Date:** 07/30/2016

**Location:** Holt Christian Church  
2424 South Washington Road  
Lansing, MI 48901

**Website:** <http://www.centralmiarc.com>

**Sponsor:** Central Michigan Amateur Radio Club

**Type:** ARRL Hamfest

**Talk-In:** 145.39 (PL 100)

**Public Contact:** Donald McLain, KB8RAD  
4444 Sycamore Street Holt, MI 48842  
Phone: 517-694-0812  
**Email:** [KB8RAD@arrl.net](mailto:KB8RAD@arrl.net)

### Technician Class Study Seminar Fall 2016

**Class Fee:** \$40.00 (does not include study manual)

**Mondays:** Oct 3, 10, 17, 24, Nov 7 & 14

**Time:** 6:30 p.m. to 8:30 pm

**Location:** Davison Community Enrichment & Recreation Building - Rm 106

**Instructor:** Amy Pender, WA8MY

**Registration Information:**

Davison Community Enrichment & Recreation

**Class Name:** "Get Your Ham Radio License"

By Phone: (810) 591-0177

Online: <http://davisonschools.org/dcer.cfm>

**Note:** Instructor uses Gordon West Technician Class Study Manual during seminar. Students who do not wish to purchase a manual may choose to use free online study materials.

**Where To Buy The Study Manual:**

Dentronics in Flushing, MI: 810-659-1776

Gordon West Online: [www.W5YL.org](http://www.W5YL.org)

### General Class Study Seminar – Winter 2017

**Class Fee:** \$40.00 (does not include study manual)

**Mondays:** Jan 23, 30, February 6, 13, 20, 27

**Time:** 6:30 p.m. to 8:30 pm

**Location:** Davison Community Enrichment & Recreation Building - Rm 106

**Instructor:** Amy Pender, WA8MY

**Registration Information:**

Davison Community Enrichment & Recreation

**Class Name:** "Upgrade to Ham General Class License"

By Phone: (810) 591-0177

Online: <http://davisonschools.org/dcer.cfm>

**Note:** Instructor uses Gordon West Technician Class Study Manual during seminar. Students who do not wish to purchase a manual may choose to use free online study materials.

**Where To Buy The Study Manual:**

Dentronics in Flushing, MI: 810-659-1776

Gordon West Online: [www.W5YL.org](http://www.W5YL.org)

Hosted by Genesee County Radio Club!  
Highly Recommended!



## Upcoming Testing Sessions—Is it time to get that upgrade?

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**Oak Park MI 48237-2085**

**Sponsor:** Hazel Park ARC

**Date:** Jun 07 2016

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

**Contact:** Alvin J. Begel

(248) 543-2284

**Email:** [wgnpi@comcast.net](mailto:wgnpi@comcast.net)

**VEC:** [ARRL/VEC](#)

**Location:** Oak Park Community Center

14300 Oak Park Blvd

PRE-REGISTRATION URGED

Oak Park MI 48237-2085

## L.C.A.R.A. Membership Application

Please Print	
CALL SIGN: _____	NAME: _____
ADDRESS: _____	
CITY, STATE, ZIP: _____	
TELEPHONE: _____	EMAIL: _____
LICENSE CLASS: _____	A.R.R.L. MEMBER? (YES) (NO)
SKYWARN NO: _____	RACES NO: _____
ARES 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**

PLEASE  
PLACE  
STAMP  
HERE