

# Waveguide

## Lapeer County Amateur Radio Association

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

Club Founder: Hollis Hayes W8ACD, SK

## The President Says

Greetings Fellow LCARA Members,

We had our members' "Show & Tell" presentations at the March meeting. Thanks to all who participated. Personally I enjoyed it so much I'd like to see us do it again. If you have a project you'd like to share with the group just let one of the officers know. And it doesn't matter if your project is simple or complex. If it's interesting to you it will be interesting to others.

Thanks to all the members who participated in the amendment vote. We had over 90% of the ballots returned and they were all in favor. So the amendment will be added to our constitution in the near future.

In our ARES meeting we practiced using FLDigi. That's a very nice program for the digital modes and messaging. If you haven't used it before give it a try.

Come one, come all! April 12th, 7:30 PM EOC basement- We will have a presentation on AMSAT by Keith Baker, KB1SF. I found a link to a Youtube video interview with Keith. Check it out. Even



April 2016

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### W8LAP / r Repeaters

146.620 - 100 Hz  
442.750 + 123 Hz

### Next Club Meeting

**Tuesday, April 12**  
**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



if you don't usually attend meetings this should be an especially interesting presentation, so come join us.

<https://www.youtube.com/watch?v=pto6U7CPvvo&feature=youtu.be>

Hope to see you at the meeting.

73,

Gordon, KD8TXW

## View from the Veep Seats

It's been a wet, wet, spring so far. After driving to North Branch this weekend, I'm glad there's no river near by, and hope that you're all staying dry yourselves.

Some of you may have endured my maiden voyage as Net Control a few weeks ago—thanks for the kind words, and although it was modestly white-knuckle inducing, it was also a lot of fun. Glad to have so many experienced hams on the net!

March was mostly spent on household stuff, but I was able to finally acquire a Signalink and get it more or less configured for digital modes. With the upcoming county Simulated Emergency Test, I'm looking forward to an opportunity to copy some local traffic.

See you at the April 12th meeting—the presentation on AMSAT looks to be very interesting, and I hope to meet some new faces.

73,

Gerret, KD8YUK

### 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

## The Treasurer Says

Greetings to everyone. It looks like spring has sprung, the yard is like a sponge and the iris are starting to pop out of the ground. At the same time, the weather man is predicting more snow on Thursday the 23rd of March. Well the old saying, in like a lion out like a lamb seems to be reversed. Well maybe I can get out and do some antenna work that I put off last fall. Anyway I am going to try.

As far as the treasury goes, we are in the expensive part of our year. Both our Liability and Property insurance come due this month. I have already paid the first one and am getting ready to send in the other this week. Neither were out of the ordinary, so I just pay them. Dues keep trickling in one or two a month, but it appears like we are at where we are going to be for membership. We have been having some nice presentations at the meetings, and that brings out a few more people. That is a good thing. So all in all life is good. I hope that it is for all of you too.

Keep in mind that Gerret, KD8YUK is putting together an outing for Field Day June 25 and 26, 2016, at his house and we expect every member to participate in some way. Well we can expect it even if! I hope that everyone comes to see what happens at Field Day. I have always enjoyed it and hope to again this year.

That's about all for this month, so hope to see you at the meeting and at Field Day.

Respectfully,

Treasurer, 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)

## The Trustee Says

Hello W8LAP Supporters:

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

If anyone notices that either repeater is not functioning as it should, please notify me at the email below.

Unlicensed users/interference: A nearby repeater has experienced unauthorized users on occasion. For the W8LAP repeaters, please observe these guidelines –

- Do not engage anyone who appears to be unlicensed. It is against FCC rules for a licensed Amateur to communicate on licensed frequencies with non-Hams. An unlicensed user may be difficult to track, but you, a licensed user, are easy for the FCC to locate.
- Jammers and hecklers thrive on attention. Ignore this activity, and do not respond in any way. In fact, do not even acknowledge that there is any activity except you, and the other Ham(s) you are talking with.
- If you chose to ignore the above advice, and the FCC notifies you of your transgression, there is only one person to blame.

### This month's Links:

#### *Radio Kits*

Electronics kit building has been around for as long as Amateur Radio. To be sure, in the early days of Amateur Radio, manufactured radio equipment was very costly for the average Ham. Thus, those with modest means would home-brew their gear. Magazines and handbooks contained dozens of plans for such gear, and electronics part dealers, both local and mail order, were abundant.

Through the years, home brewing became more sophisticated, when creative retailers began boxing complete part packages, along with instructions, that made home brewing much easier for those who had low-level knowledge or lacked initiative to

### 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

**And**

**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.

gather the parts to assemble something. Kits not only contained the necessary parts, but also instructions on how to assemble them, and test the final product. This idea was epitomized by the Heath Company of Benton Harbor Michigan.

Heathkits were so well organized and explained that even those with zero electronic knowledge could build useful, sophisticated equipment. In fact, I worked with such a person. He was a machinist by trade, and had a collection of television, stereo, and other home electronics that was mouth-watering. Yet, he had no knowledge of how it worked.

Such kits have passed well into history, with the advent of large scale integration, and changes in consumer interests. Nowadays, about the only electronic kits available are very basic, and meant to introduce beginners to building techniques. A few sources are:

electronickits.com:

<https://www.electronickits.com/electronic-kits/>

ramseyelectronics.com:

<http://www.ramseyelectronics.com/legacy.htm>

Beyond the above types of kits, Amateur Radio transceiver kits that have more than basic features are few and far between, and also fairly costly. If one desires to build something sophisticated, at lower cost, scratch-building is the only way. In a sense, this brings kit building to a full circle: Getting plans, and gathering components. Both of these are much easier to do in the internet age. Searches produce hundreds of plans for about any project, and internet part suppliers are too numerous to count.

One very sophisticated transceiver home brew project caught my eye, recently. This is a completely self-contained SDR (Software Defined Radio), designed by Chris (MoNKA). Dubbed the "mcHF QRP Transceiver," it is loaded with features, and appears to perform very well. The screen is dazzling. For about 300 British Pounds (around 400 US\$), one can build a fairly loaded, microprocessor controlled, digitally filtered transceiver. Now, this radio doesn't have all the features of the recently released Icom IC-7300, but the cost of building it is only about 1/4

of the new Icom.

MoNKA site: <http://www.monka.co.uk/>

YouTube mcHF videos: [https://www.youtube.com/results?search\\_query=mcHF+QRP+transceiver](https://www.youtube.com/results?search_query=mcHF+QRP+transceiver)

Note that this project is not for the beginner or those who are faint of heart. Nonetheless, for someone who is fairly well-versed in electronic construction and parts, it might make for a very rewarding experience, and a final product that would make one proud.

For my part, I'll stick to my current project, which is a controller for automatically adjusting the tuning capacitor of a Small Transmitting Loop (STL) – generally referred to as a mag loop.

<https://sites.google.com/site/lofturj/to-automatically-tune-a-magnetic-loop-antenna>

YouTube: <https://www.youtube.com/watch?v=r3BllnZ68R4>

See you at the next meeting,

Mike, KN8Z (kn8z at arrl.net)

## Michigan Traffic Nets

*Michigan Section Traffic/ARPS Net (All times Local)*

*Source: Michigan Section News, March 2016*

- MACS - MI Amateur Communications System 3.952 1000 Daily
- UPN – Upper Peninsula Net 3.921 1700 Daily; Noon Sunday
- MIARPS - MI Amateur Radio Public Service Corps 3.932 1700 Sunday
- QMN – The Michigan Net 3.563 1830 and 2200 Daily
- MITN – MI Traffic Net 3.952 1900 Daily
- MIDTN – MI Digital Traffic Net 3.583 (Olivia 8/500) in waterfall 2000 Tues, Thurs, Sat
- MIADS – MI ARES D-Star Net Reflector 24A Mon 2000
- D8EN - District 8 Emergency Net 3.909 Wed 2100
- GLETN – Great Lakes Emergency and Traffic Net 3.932 2000 Daily
- MVTN – MI VHF Traffic Net IRA Link System 2100 Mon, Wed, Fri, Sun
- NLEUP - Northern Lower Eastern UP Net 146.64- 18:30 Daily
- SEMTN – SE MI Traffic Net 146.76- 2215 Daily
- TMMTN – Thumb Mid-Michigan Traffic Net 147.30+ 2130 Mon - Sat

More information is available at <http://nts-mi.org/>.

# Lapeer County Emergency Coordinator / Radio Officer Report

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## LAPEER COUNTY ARES -

## MARCH 2016 MEETING MINUTES

### ATTENDANCE

KB8TAR, KC8VHA, KD8TXW, KD8YGA, KD8LVK, KD8YUK,  
KE8BYG

### TOPICS COVERED

- ✱ STUDY LIST PROGRESS
- ✱ PROPOSED RADIOGRAM FORM PASSED OUT FOR REVIEW BY GROUP
- ✱ USB WITH FILES PASSED OUT FOR INDIVIDUAL DOWNLOAD
- ✱ PLANNING FOR LAPEER COUNTY SET IN APRIL
- ✱ FLDIGI SETUP / DESKTOP ICON FOR FLDIGI FILE LOCATION
- ✱ FLDIGI DEMO

### QUESTIONS RAISED

- ✱ ALL QUESTIONS WERE CONCERNING FLDIGI OPERATION

### ARES MEMBERS TO DO ACTIONS

- ✱ COMPLETE 1 FEMA CLASS BY APRIL MEETING
- ✱ REVIEW AND COMMENT ON PROPOSED ARRL RADIOGRAM FORM
- ✱ CONTINUE FIELD MANUAL CONSTRUCTION

### SCHEDULE FOR ARES ACTIVITIES

- ✱ PREPARATION EXERCISE ON 03 APRIL AT 1:00 PM AT KB8YGA'S QTH
- ✱ PREPARATION EXERCISE ON 10 APRIL AT 1:00 PM, LOCATIONS TBD
- ✱ LAPEER COUNTY SET ON 16 APRIL AT 8:00 AM –



### ARES Training Program

#### NO April Meeting—LC SET

The ARES April activities include a message handling exercise on 4/10/16 and the county-wide SET on 4/16/16.

### 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.

### EC/RO Report, Continued...

MORE INFORMATION IS FORTHCOMING FROM A 01  
APRIL EMAC MEETING

- ★ APRIL ARES MEETING – PARTICIPATE IN LAPEER  
COUNTY SET ON SAT 4/16.
- ★ MAY ARES MEETING TO BE HELD AS SCHEDULED ON  
18 MAY
- ★ JUNE ARES MEETING – WE WILL USE FIELD DAY AS  
THE ARES MTG
- ★ NO JULY ARES MEETING – VACATION
- ★ AUGUST ARES MEETING – PLANNING ANOTHER MINI  
-EXERCISE TO TEST OUR FIELD SETUP SKILLS PRIOR  
TO COLD WX, DATE TBD

### MAY TRAINING TOPICS

- ★ CONTINUE FLDIGI SETUP ACTIVITY
- ★ EXPLORE FLDIGI MESSAGE HANDLING

### 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





### Vintage Radio Gear Galore

Contributed by Mike Zedan, KN8Z,  
LCARA Repeater Trustee

The next time someone mentions that they know someone who collects vintage ham gear, you can respond, "Oh no, you don't, not unless it's W9EVT."

<https://www.qrz.com/db/W9EVT/>

### How to Prepare for a Flood

Contributed by Mary Piorunek,  
Lapeer County Emergency Manager

Visit this link for a twelve-page PDF guide prepared by FEMA as part of America's Prepare-a-thon. [http://www.fema.gov/media-library-data/1409002852888-3c5d1f64f12df02aa801901cc7c311ca/how\\_to\\_prepare\\_flood\\_033014\\_508.pdf](http://www.fema.gov/media-library-data/1409002852888-3c5d1f64f12df02aa801901cc7c311ca/how_to_prepare_flood_033014_508.pdf)



### SkyWarn and GC-ARPS

Contributed by Kevin Boxey, KB8TAR  
Lapeer County Emergency Coordinator

FYI for anyone looking for SkyWarn training this year. <http://www.gc-arp.org/>

### April 10-16 is Severe Weather Awareness Week

Contributed by Mary Piorunek,  
Lapeer County Emergency Manager

For more information, visit the MCSWA Web site at <http://www.mcswa.com>.

#### New Feature!

Send your radio-related tidbits to the editor at [kd8yuk@kd8yuk.org](mailto:kd8yuk@kd8yuk.org) for inclusion in a future issue of the Waveguide.

## Upcoming Club Meetings

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2016 is shaping up to be a great year! Here's a preview of the current slate of club meeting topics—check back next month as conditions evolve.

### April

**Keith Baker, KB1SF** is an AMSAT officer—AMSAT is the organization that creates/ coordinates amateur radio satellites.

### May

**Ask an Elmer!** Join your fellow radio operators for a spirited conversation on those topics mundane and esoteric. Whether you come to ask a question, offer some answers, or just listen to the camaraderie, you'll be sure to learn something. As always, **all are welcome!**

### June

**Bill Demaray**, Quality Supervisor for the Electromagnetic Compatibility Laboratory at Nexteer Automotive provides a presentation on electromagnetic vehicle compatibility testing. (*Editor's Note: I'm hoping he can tell me where the RFI in my vehicle comes from!*)

### 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! More to come on this exciting development.*

### August

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

**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.**

2016 is going to be history before we know it!



# April 2016

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## 3 SUNDAY

Sunday Nets (see sidebar)

## 5 TUESDAY

8:00pm ARES Net

## 7 THURSDAY

8:00pm ARES Net

## 10 SUNDAY

Sunday Nets (see sidebar)

1:00PM ARES Pre-Set Exercise

## 12 TUESDAY

7:30pm LCARA Club Meeting

## 14 THURSDAY

8:00pm ARES Net

## 16 SATURDAY

Lapeer County Simulated Emergency  
Test (SET)

1600z Michigan QSO Party (see ad later  
in this issue of the Waveguide)

## 17 SUNDAY

Sunday Nets (see sidebar)

## 18 MONDAY

Technician seminar begins. Genesee  
County Radio Club (see ad later in this  
issue of the Waveguide)

## 19 TUESDAY

8:00pm ARES Net

## 21 THURSDAY

8:00pm ARES Net

## 24 SUNDAY

Sunday Nets (see sidebar)

## 26 TUESDAY

8:00pm ARES Net

## 28 THURSDAY

8:00pm ARES Net

## LCARA Nets - on W8LAP Repeater

### Tuesdays, 8pm

146.620- with 100 Hz PL

### Thursdays, 8pm

On 442.750+ with 123 Hz PL

## Sunday Nets

### ARPSC - 5pm

3.932 LSB

### D3 Net - 6:30pm

145.31+ 131.8 Hz PL

### D3 Digital Training Net - 8pm

3.583 USB

## SkyWarn Training

See the ad later in this issue of the  
Waveguide for upcoming training in  
April.

# May 2016

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## 1 SUNDAY

Sunday Nets (see sidebar)

Dayton Hamvention

## 3 TUESDAY

8:00pm ARES Net

## 24 TUESDAY

8:00pm ARES Net

## 5 THURSDAY

8:00pm ARES Net

## 26 THURSDAY

8:00pm ARES Net

## 7 SATURDAY

1:00pm Lapeer County Tornado Siren Test

## 29 SUNDAY

Sunday Nets (see sidebar)

## 8 SUNDAY

Sunday Nets (see sidebar)

## 31 TUESDAY

8:00pm ARES Net

## 10 TUESDAY

7:30pm LCARA Club Meeting

## 12 THURSDAY

8:00pm ARES Net

## 15 SUNDAY

Sunday Nets (see sidebar)

## 17 TUESDAY

8:00pm ARES Net

## 18 WEDNESDAY

7:00PM ARES Team Meeting @ EOC

## 19 THURSDAY

8:00pm ARES Net

## 20 FRIDAY

Dayton Hamvention

## 21 SATURDAY

Dayton Hamvention

Ann Arbor ARROW Bus Trip to Hamvention (See ad later in this issue of the Waveguide)

## 22 SUNDAY

Sunday Nets (see sidebar)

## LCARA Nets - on W8LAP Repeater

### Tuesdays, 8pm

146.620- with 100 Hz PL

### Thursdays, 8pm

On 442.750+ with 123 Hz PL

## Sunday Nets

### ARPSC - 5pm

3.932 LSB

### D3 Net - 6:30pm

145.31+ 131.8 Hz PL

### D3 Digital Training Net - 8pm

3.583 USB

## SkyWarn Training

See the ad later in this issue of the Waveguide for upcoming training in May.

# Lapeer County Tornado Siren Testing Schedule

Contributed by Mary Piorunek,  
Lapeer County Emergency Manager

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

**Saturday, May 7th**

**Saturday, June 4th**

**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.*

## Tornado and Thunder Storm Facts

Source: MCSWA Newsletter

### 1. What is a severe thunderstorm?

A severe thunderstorm produces large hail that is one inch in diameter or larger, damaging winds of 58 mph or greater, and/or a tornado.

### 2. What is a tornado?

A tornado is a column of violently rotating winds extending down from a thunderstorm cloud and touching the surface of the earth.

### 3. What is the difference between a tornado and a funnel cloud?

A funnel cloud is also a column of violently rotating winds extending down from a thunderstorm; however, it does not touch the earth as a tornado does.

### 4. How many tornadoes usually occur in Michigan every year?

Michigan experiences an average of 15 tornadoes annually. Since 1950, 243 persons have been killed due to tornadoes. During this same time, Michigan has experienced 1009 tornadoes.

### 5. When do tornadoes generally occur?

Most tornadoes occur during the months of May, June, July, and August primarily in the late afternoon and evening hours. However, tornadoes can occur anytime of the day or night in almost any month during the year.

### 6. How fast do tornadoes travel?

Tornadoes generally travel from the southwest at an average speed of 30 mph. However, some tornadoes have very erratic paths, with speeds approaching 70 mph.

### 7. How far do tornadoes travel once they touch the ground?

The average Michigan tornado is on the ground for less than 10 minutes and travels a distance of about five miles. However, they do not always follow the norm and have been known to stay on the ground for more than an hour and travel more than 100 miles.

### 8. When is a tornado or severe thunderstorm watch issued?

A tornado or severe thunderstorm watch is issued whenever conditions exist for severe weather to develop. Watches are usually for large areas about two-thirds the size of Lower Michigan and are usually two-to-six hours long. Watches give you time to plan and prepare.

### 9. When is a tornado or severe thunderstorm warning issued?

The local National Weather Service (NWS) office issues a tornado warning whenever NWS Doppler Radar indicates a thunderstorm is capable of producing a tornado or when a tornado has been sighted by a credible source. A severe thunderstorm warning is issued whenever a severe thunderstorm is observed or NWS Doppler Radar indicates a thunderstorm is capable of producing damaging winds or large hail.

*Continued on next page.*

## Upcoming Hamfests, Swaps, and other Events

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### Dayton Hamvention

**Start Date:** 05/20/2016

**End Date:** 05/22/2016

**Location:** Hara Arena

1001 Shiloh Springs

Dayton, OH 45415

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

### Dayton Hamvention Bus Trip

ARROW Communications Association in Ann Arbor is sponsoring a one-day bus trip to Hamvention—details later in this issue of the Waveguide.

### 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)

### 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)

### Tornado and Thunderstorm Facts, Continued...

Warnings are issued for even smaller areas, such as parts of counties. These “storm-based” NWS warnings are issued for the threatened area in a shape of a polygon. The “polygon” warnings only include sections of a county or group of counties and usually last for 30 to 90 minutes in length. You must act immediately when you first hear the warning. If severe weather is near you, seek shelter immediately. If not, keep a constant lookout for severe weather and stay near a shelter.

#### 10. What is a special marine warning?

The NWS will issue a special marine warning for the Great Lakes and the connecting waterways when a strong or severe thunderstorm develops or moves over the water. The special marine warning is issued for boaters, both recreational and commercial. For residents and visitors of Michigan’s many coastal communities, the special marine warning provides valuable information about a storm that is about to move onshore.

#### 11. How do I find out about a warning if my electricity is already out?

A NOAA Weather Radio All Hazards with battery back-up capability is your best source to receive the warning. In some areas, civil emergency sirens may be your first official warning. In addition, if your television or radio has battery back-up capability, you may receive NOAA’s National Weather Service warnings from local media.





# Amateur Radio Test Session, April 9, 2016

Sponsored by the Tuscola County Amateur Radio Association (TCARA)

ARRL VE TEST SESSION Tuscola County  
Up-Grade or Test for New Amateur Radio  
(HAM) License.

**Date:** April 9, 2016 (Saturday)

**Time:**

10 A.M. (Door Open about 9:35 A.M.)

**Place:**

Tuscola County Sheriff Dept. (Basement)  
420 Court St  
Caro, MI 48723

**Contact:**

Roger Edwards, WB8WJV  
989-673-5722 Leave a Message Please  
Roger will get back with you.  
wb8wvjv@arrl.net

## Pre-Registration Requested!

*Please Note We Might Accept Limited Walk-ins, but to be sure, please email or call.*

## What to Bring

(This is from ARRL web site)

1. A legal photo ID (driver's license, passport)
2. If no photo ID is available, two forms of identification:
  - a. non-photo ID/driver's license (some states still have them)
  - b. birth certificate (must have the appropriate seal)
  - c. social security card
  - d. library card
  - e. utility bill, bank statement or other business correspondence that specifically names the person; or a post-marked envelope addressed to the person at his or her current mailing address as it appears on the Form 605.
3. Students/minors may bring any of the above items and/or a school ID, minor's work permit, report card, or a legal guardian may present a photo ID.
4. Social Security Number (SSN) or your FCC issued Federal Registration Number (FRN); VEC's are required by the

FCC to submit either your SSN or your FRN number with your license application form. If you prefer not to give your SSN at the exam session, then you may register your SSN with the FCC before exam day. Once you have a FCC issued FRN, you may no longer use your SSN on the application. For instructions on how to register your SSN with the FCC and receive a FRN, visit the FCC's FAQ Page at <https://apps.fcc.gov/coresWeb/publicHome.do> FCC Registration System [apps.fcc.gov](https://apps.fcc.gov) FCC Registration. If you wish to conduct business with the FCC, you must first register through the FCC's Commission REGistration System (CORES). and the FCC's registration instructions page at [http://wireless.fcc.gov/uls/index.htm?job=about\\_getting\\_started](http://wireless.fcc.gov/uls/index.htm?job=about_getting_started). Please note that some exam teams will only accept a valid FRN on your application. Check with your local exam team before exam day.

5. If applicable, bring either a photocopy of your current Amateur Radio license or a reference copy printed out from the FCC website, the license information printed from ARRL website or QRZ website, or the original(s) and photocopy(s) of any Certificates of Successful

Completion of Examination (CSCE) you may hold from previous exam sessions. If your license has already been issued by FCC, the CSCE showing license credit is not needed. The photocopy(s) will not be returned.

Instructions on how to obtain an official FCC license copy are on ARRL Obtain License Copy web page at <http://www.arrl.org/obtain-license-copy>

6. Two number two pencils with erasers and a pen.

7. A calculator with the memory erased and formulas cleared is allowed. You may not bring any written notes or calculations into the exam session. Slide rules and logarithmic tables are acceptable, as long as they're free of notes and formulas. Cell phone must be silenced or turned off during the exam session and the phones' calculator function may not be used. In addition, iPhones, iPads, Androids, smartphones, Blackberry devices and all similar electronic devices with a calculator capability, may NOT be used.

8. Bring a check, a money order or cash to cover the exam session fee(s).

Check the ARRL VEC's current exam fee is \$15.00

Thanks,

Roger Edwards, WB8WJV

# 2016 Michigan QSO Party—"Just Have Some Fun!"

*Submitted by Mike, N8MR, 2016 MiQP Publicity*

Let's all help make Michigan "radio-active" on the 16th of April!

## Reasons to Participate

- ◆ Chance to get on the air
- ◆ Single Op, Multi Op, Mobile, EOC
- ◆ Be the station others want to work
- ◆ Maybe activate a rare county?
- ◆ Excellent Club Activity
- ◆ Reason to get together as group
- ◆ Join the fun in the "EOC" station category
- ◆ Excellent Training opportunity!
- ◆ Get new members on the air!
- ◆ Friendly Competition

Get your local EOC on the air and show the emergency management team how amateur radio can benefit their efforts!

The 2016 Michigan QSO Party, sponsored by the Mad River Radio Club, is from 1600Z April 16 until 0400Z April 17.

Stations may operate the full 12 hours. Phone and CW on 80/40/20/15/10 meters. Single-op, multi-op, and mobile categories. Work stations once per band and mode. MI-to-MI QSOs allowed. Work portables and mobiles again as they change county, state or province. Exchange QSO number and location (county for MI stations, state/province or "DX" for others).

## Suggested frequencies

CW-3545, 7045, 14045, 21045, 28045; Phone-3825, 7200, 14250, 21300, 28450. One point per phone QSO, two points per CW QSO. Count multipliers once per mode.

Multipliers are MI counties for all entries, plus states, provinces and "DX" for MI entries only. Final score is total QSO points times total multipliers.

## Logging

Submit logs no later than 30 days after the contest.

**Electronic logs** in Cabrillo format are submitted via the Log Submittal page on the MiQP web site <http://www.miqp.org/submitLogFileMiQP.html>.

Mail **paper logs** with summary sheets to:

Mad River Radio Club  
c/o Dave Pruett  
2727 Harris Road  
Ypsilanti, MI 48198.

For full rules, along with free logging software, log and summary sheets, see <http://www.miqp.org>.

**2016 Michigan QSO Party**  
**April 16, 2016 1600 (Zulu)**  
**To**  
**April 17, 2016 0400 (Zulu)**



## Technician Class Study Seminar

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Submitted by Amy Pender, WA8MY

**Class Fee:** \$35.00 (does not include study manual)  
**Mondays:** Apr 18, 25, May 2, 9, 16 & 23  
**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: [www.davisonschools.org/dcer.cfm](http://www.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.

### Editor's Note

If you know someone in the area who is considering becoming "radio active", I highly recommend Amy's class. She knows the material very well, has an engaging presentation style, and her passion for the radio service is contagious. I took this class, and passed the Technician license exam on the first attempt.

*Gerret Peters, KD8YUK*

### Where To Buy The Study Manual:

Dentronics in Flushing, MI: 810-659-1776

Gordon West Online: [www.W5YI.org](http://www.W5YI.org)

# Dayton Hamvention Bus Trip—Take the Bus with Us!

*Sponsored by the ARROW Communication Association and submitted by John Wasciuk, WA8TON*

**Saturday, May 21, 2016**

**Sponsored by the  
ARROW Communication  
Association**

The **ARROW Communication Association** is once again proud to sponsor a motor coach trip to the **2016 Hamvention** in Dayton, Ohio. Started in 2002, this annual club activity has grown in size and reputation with hams across Michigan. We have been host to over 500 hams for this event.

Join us on **Saturday, May 21, 2016**, when we depart from the park-and-ride lot beside Ann Arbor Pioneer High School (601 W. Stadium Blvd) at 4:30 a.m., arriving in Dayton around 8:00 a.m. On board, you can stretch out, relax, take a nap, chat with other hams, and enjoy a continental breakfast with coffee as the coach takes you directly to the country's largest amateur radio event!

**We arrive at Dayton early enough so that you can enjoy a full day!**

- Visit exhibits
- See what's new from major manufacturers
- Attend seminars
- Take license tests
- Shop the largest outdoor swap meet in the United States

When Hamvention closes at 5:00 p.m., return to the bus with your purchases for the ride back home. No standing in lines waiting for a shuttle bus or fighting traffic!

**Got stuff to sell? We can help!**

We will have a booth in the flea market. If you buy a bus ticket, you can sell your stuff at our booth. All we ask is that you limit it to a reasonable amount and that you volunteer for one hour at the booth. The cost of a booth alone is \$70, more than the cost of our ticket, which makes the ARROW trip a GREAT value!

**For our out-of-town guests!**

If your QTH is too far away to drive to meet our bus which leaves at 4:30 a.m., and you need information about hotels in Ann Arbor, contact us at the information listed below for details.

**This is no ordinary bus trip –  
it's an ADVENTURE!**

Tickets are \$65. This does **NOT** include your admission to the Hamvention. We suggest that you purchase your 2016 Hamvention ticket(s) in advance to take advantage of the discount and enjoy the day without waiting in line for your tickets, or **see how you can win one of two free Hamvention tickets** below!\*

When you add it all up, taking the bus with the ARROW is the most economical and relaxing way to attend Dayton. For more information on the 2016 trip, go to our website and click the Dayton bus trip link under Activities.

\*All ticket purchases **RECEIVED** by 4/1/2016 will be entered into a raffle drawing to win one of two free tickets to the Hamvention. Winners will be drawn at the April ARROW meeting on 4/13/2016 and will be contacted.

**Contact information:**

John Wasciuk, WA8TON  
616 560-3365  
e-mail: [jwasciuk@gmail.com](mailto:jwasciuk@gmail.com)

**To sign up online, or download  
the registration form, visit the  
ARROW Communication Association Website: [http://  
www.w8pgw.org/activities/  
dayton-bus-trip/](http://www.w8pgw.org/activities/dayton-bus-trip/)**



## SkyWarn Spotter Training for 2016

Source: National Weather Service Detroit/Pontiac Skywarn Spotter Newsletter , Spring 2016

Submitted by Mary Piorunek, Lapeer County Emergency Manager

See the NWS Website for registration details: <http://www.weather.gov/dtx/spotter2>

DATE	COUNTY	ADDRESS	TIME
4/5	Monroe	Bedford Public Library, Jackman Road, Temperance MI	6:30pm – 8:00pm
4/6	Livingston	Hamburg Township Fire Department - 3666 East M-36, Pinckney, MI 48169	7:00pm – 8:30pm
4/7	Oakland	Costick Center - 28600 W 11 Mile Rd, Farmington Hills, MI 48331	7:00pm – 9:30pm
4/13	Lenawee	Baer Hall on the Campus of Adrian College - 1325 Williams St., Adrian, MI 49221	7:00pm – 8:30pm
4/16	Macomb	Macomb ISD - 44001 Garfield, Clinton Township, MI 48036	10am – 12pm
4/26	Genesee	Genesee County Building Third Floor Auditorium - 1101 Beach Street, Room G-25, Flint, MI 48502	7:00pm – 8:30pm
4/30	Genesee	Genesee County Building Third Floor Auditorium - 1101 Beach Street, Room G-25, Flint, MI 48502	10:00am – 11:30am
5/4	Shiawassee	Memorial Health Care Large Auditorium - 826 West King, Owosso, MI 48867	7:00pm – 9:30pm

Have an old radio, antenna or something related to the hobby for sale?

Looking for something hard to find?

Send it the editor for an upcoming issue of the Waveguide!

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

***Don't let this page stay empty!***

*Include the item name, condition, asking price (or best offer), and your contact information. Photos are a plus, too.*



## 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