

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

Hi Everyone,

Here we are in March and our association has already had some very nice activities. I really enjoyed the DXpedition presentations in January and February. For our next meeting we'll change it up a bit and have a "Show & Tell" of four association members' projects. These will include a JPole antenna, a weather station, Orbitron software for weather satellite pictures and an auxiliary vehicle battery installation.

The ARES training that Kevin is conducting is very interesting. I think any ham could benefit from what he's teaching. I especially enjoy the training on how to use good operating practices. All are welcome to participate in this training so come on out if you can. I'm sure you'll learn something new and interesting.

Well I'm gonna keep it short this month. I hope to see you all at the March 8th meeting.

KD8TXW says 73

Gordon Miller



March 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



View from the Veep Seats

March is here, and the weather is almost warming. This month's Waveguide contents are an indicator of great radio fun on the horizons, as well as some that is happening over the horizon as this issue goes to (digital) press. Be sure to check out the **DXpedition to Christmas Island** on page 9, as our own Lee Dziekan is part of the trip, which only runs through March 15th.

Also on the horizon is an LCARA club **Field Day**, which, as I understand it, hasn't happened for a while. Start planning for some summer fun now, as we'll be running this event "vacation style" for maximum fun. There's a one-page introduction later in this issue, and it will be a feature through June. All are welcome!

March is the month for new things, as we launch **Heard on the Wire**, a radio news tidbit column fueled by you, the readers. Thanks to all of you who provide a steady stream of information and humor flowing into the editorial inbox.

Looking back briefly at February, that windy snow storm on the 9th whipped the trees back and forth so hard that my G5RV gave up the ghost, snapping right at the center junction. Fortunately the guy lines remained in place in the trees, so it shouldn't be too hard to repair and re-hang when the weather improves a bit. In the meantime I'll continue to stare soulfully at the MFJ 939Y auto-tuner on the shack shelf, waiting for its connection to the outside world.

There is a lot to read in this month's issue of the Waveguide, so I'll let you get to it.

73S,

Gerret Peters, 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

Proposed LCARA Constitution Amendment

The Executive Board proposes the following amendment to the LCARA Constitution, Article VIII, Duties of the President:

Add the following to the Duties of the President:

The President shall be an "or" signatory on association accounts and make transactions in the event the Treasurer is unable to do so and only with the consent of the Executive Committee.

Reason for the Change

This has been the practice of the association and this amendment is meant to put that practice into writing.



Process

All voting members of the association should have received a letter by hand or through the mail prior to February 1, 2016. **We will have a vote on the proposal at the March 8, 2016 meeting.**

Thank You,

Gordon Miller, KD8TXW
LCARA President

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

Feedback Welcome

Feedback positive and constructive is welcome and may also be directed to KD8YUK@KD8YUK.ORG

The Secretary Says

LCARA Meeting Minutes

February 9, 2016

The meeting was called to order at 7:30 pm. There were 17 members and guests present.

The first order of business was an excellent presentation by Dave WJ8R, and his SOTA expedition to Brockway Mountain in the Keweenaw Peninsula in Michigan's upper peninsula. A particular accomplishment was the first EME QSO from Grid Square EN67.

After the break our business meeting commenced.

The Secretary's report as published in the Waveguide was motioned, seconded, and approved by the membership present.

The Treasurer's report was presented, motioned, seconded and approved by the membership present.

Upcoming presentations, in March, Mike KD8OTZ will show techniques to receive weather satellites, Will KB8YGA shall present details of his weather station, Gordon will present his solutions for inclusion of auxiliary battery usage.

April meeting we have the Treasurer of AMSAT presenting exciting upcoming of the amateur satellite program.

June meeting we have an Electromagnetic Compatibility expert presentation.

Trustee Report: The Lapeer Repeater can be heard on Radio Reference. Com. There is an echo on Radio Reference but it is not a repeater issue.

We may need to replace the roof on the repeater shack.

Old Business

There is still time to vote on the club's Constitutional amendment; please get your vote to President Gordon by March 8th.

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, 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.

The amendment was described in last month's Waveguide.

The website upgrade planning is proceeding with Webmaster Dave Erskine and Gerret Peters leading the project.

Gerret is still looking for old paper copies of the Waveguide to be scanned and placed on the web page. Please contact him and he will gently scan and return them.

ARES training meeting will be held Wednesday February 17, 2016 at 7pm at the EOC. Bring your laptops.

New Business

Lee N8LJ made a motion to donate \$100 to the AMSAT program after the upcoming presentation. The motion was seconded by Dan KC1BUD and approved by the membership present.

Gerret KD8YUK proposed a Field Day event and volunteered to host the event at his QTH. More to follow. Please consider volunteering your time to support this club endeavor. It's been many years since the club participated in this event.

Respectfully Submitted

Lee

N8LJ



Field Day

See the feature article in this issue of the Waveguide to learn more about the upcoming Field Day event and how you can be involved. **All are welcome**

Lapeer County Emergency Coordinator / Radio Officer Report

LAPEER COUNTY ARES FEBRUARY MEETING MINUTES

ATTENDANCE

KB8TAR, N8LJ, KC8VHA, KD8TXW, KD8YGA, KD8LVK

TOPICS COVERED

- ★ STUDY LIST PROGRESS
- ★ AEC POSITIONS
- ★ START FIELD MANUALS
- ★ USB DOWNLOAD
- ★ TRAINING PPT
 - ★ GOOD PHONE COMMUNICATION SKILLS
 - ★ ARRL RADIOGRAM FORM STRUCTURE
 - ★ SENDING ARRL RADIOGRAM MESSAGE BY PHONE

QUESTIONS RAISED

- ★ EQUIPMENT CAPABILITY EXPECTATIONS OF ARES GROUP
- ★ USE OF RADIOGRAM FORMS DURING PHONE OPERATION
- ★ RECORD RETENTION DURING PHONE RADIOGRAM OPERATION
- ★ CALLUP PROCEDURES

ARES MEMBERS TO DO ACTIONS

- ★ CONTINUE STUDY / READING TOPICS FROM JAN 2016 MEETING LIST
- ★ START FIELD MANUAL CONSTRUCTION
- ★ PREPARE ONE RADIOGRAM MESSAGE FOR THE MARCH MEETING



ARES Training Program

March Meeting

Mar 16, 2016, 7:00 PM

Lapeer EOC

2332 W. Genesee Street

Lapeer, MI

(Same place as club meetings)

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.

MARCH TRAINING TOPICS

- ★ SENDING ARRL RADIOGRAM BY PHONE PRACTICE
- ★ QUICK REVIEW OF SKYWARN NET PROTOCOL
- ★ FLDIGI – FLMSG, BASIC OPERATION
- ★ DISCUSS MINI-EXERCISE BEFORE LAPEER COUNTY SET IN APRIL

APRIL TRAINING TOPICS

- ★ SENDING ARRL RADIOGRAM BY PHONE PRACTICE
- ★ CONTINUE FLDIGI – FLMSG, BASIC OPERATION
- ★ FINALIZE PLANS FOR APRIL COUNTY SET

MARCH PRESENTATIONS

March is Member Project Month! Come see short presentations on a few different projects your fellow LCARA members have been working on:

1. **Gerret (KD8YUK) & Daniel Peters (KE8CFI)**
“Copper Cactus” J-Pole Antenna
2. **Will Stanton (KB8YGA)**
Weather Station and Server
3. **Mike Bowman (KD8OTZ)**
Weather Fax via Satellite
4. **Gordon Miller (KD8TXW)**
Vehicle Auxiliary Battery with West Mountain Radio ISOpwr

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 is looking 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

T32—Christmas Island DXpedition March 1 to March 15

Islands On The Air DXpedition with LCARA's own Lee Dziekan, N8LJ

Ted K8AQM, Brian KG8CO, Stan AC8W, Lee N8LJ, Steve K8QKY, Larry K8MU and Fred N6FS will be active from **Kiritimati (Christmas) Island, IOTA OC-024**, 1 to 15 March 2016 respectively as

Ted K8AQM, Brian KG8CO, Stan AC8W, Lee N8LJ, Steve K8QKY, Larry K8MU and Fred N6FS will be active from Kiritimati (Christmas) Island, IOTA OC-024, 1 to 15 March 2016 respectively as T32TR, T32CO, T32WW, T32LJ, T32SB, T32MU and T32FS. Operate on 160 – 10m including WARC in CW, SSB and Digital modes. Ted T32TR also received permission for 60 meters. We will be QRV in ARRL SSB Contest as T32WW.

QSL via AC8JF, OQRS and LOTW.

Exclusive for LCARA

Club members are welcome to contact Lee T32LJ by email for a sked.

Give Lee a couple days of notice since email may be slow and he will need to coordinate band operations with other operators.

You can reach Lee via lmdziekan at gmail.com.



Name	Call	Call As
Ted	K8AQM	T32TR
Brian	KG8CO	T32CO
Stan	AC8W	T32WW
Lee	N8LJ	T32LJ
Steve	K8QKY	T32SB
Larry	K8MU	T32MU
Fred	N6FS	T32FS

Propagation Information

Visit this K6TU page for propagation forecasts to T32WW. There is no cost, and you do not need to register for an account; all you'll need is your grid square (Lapeer, MI is EN83ib, for reference.)

<https://k6tu.net/?q=node/add/dx-prediction-t32ww>

Learn More

Visit the DXpeditions' website to learn more, at:

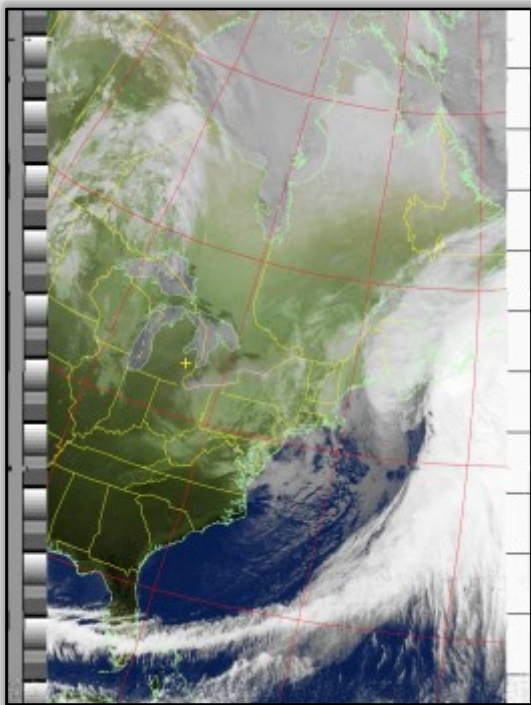
<http://www.kiribati2016.com/>

Weather Satellite Update

Mike Bowman, KD8OTZ

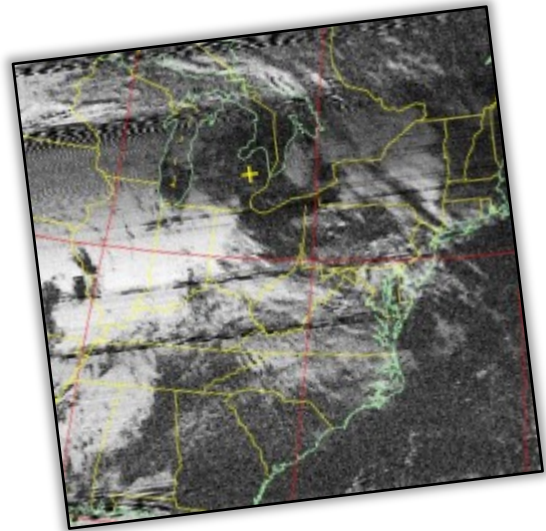


For anyone looking into weather satellite pictures, my current information is that the NOAA-n series of polar orbit weather satellites will be deactivated at the end of 2016. According to a NOAA paper entitled "Future NOAA Polar Orbiting and Geostationary Satellite Systems[®], Weather satellite NOAA-19 (at least) has a reprieve until 2017-2019, its original life expectancy.



The replacement series, JPSS-n, is not currently scheduled to use automatic picture transmission (APT) or the newer low resolution picture transmission (LRPT) used by the Russian and Chinese polar orbit satellites. The bottom line, for 2017, no pictures from NOAA, at least satellite direct. The European satellite series turned off

their APT as it was interfering with other transmissions, and later editions did not include it.



There is a code patch written in Russian to use LRPT in the current decoder program that works for the Meteor-M2 and Chinese versions.

Thanks to Google Translator (Russian) I was able to add the patches to SDRSHARP to decode the signal from Meteor M-2. In the first two tries the signal was too weak to process. The coax may be too long,

or I may need to reposition the antenna or add a preamp. Some Russian satellites signals are left-hand circularly polarized, and my antenna is right-hand polarized. I am still looking for information, which should keep me off the streets for some time.

Satellite Trivia
On Oct 4th 1957 there were 2 satellites in orbit. Currently, NASA says there are 500,000 pieces of junk up there and 1300 active satellites.

Field Day 2016

June 25-26

LCARA is hosting a club Field Day this year. This is the first of a few articles on Field Day—more to come as the planning evolves.

Objective

The ARRL defines the objective of Field Day in this way:

“To work as many stations as possible on any and all amateur bands (excluding the 60, 30, 17, and 12-meter bands) and to learn to operate in abnormal situations in less than optimal conditions. Field Day is open to all amateurs in the areas covered by the ARRL/RAC Field Organizations and countries within IARU Region 2. DX stations residing in other regions may be contacted for credit, but are not eligible to submit entries.”

That’s a mouthful. Based on initial conversations with club members (and most certainly not the final word on the matter), the LCARA club event is looking to be a more relaxed “vacation style” gathering, with as much operating as we can, but not a grueling death march to the final QSO at the last minute.

Location, Location, Location

Gerret, KD8YUK (your author) has offered to host the event at his homestead in Metamora Township. Just north of the Oakland



Country Line, the location is just under six acres of gently rolling open field, with a few scattered trees well-suited over which to pitch a wire.

There’s room to park, a large-ish pole barn with power, light and concrete floor in case of inclement weather, and (most importantly) a fire pit and gas grill.

Amateurs, Lend me Your Ears (and your hands, heads, and hardware)

Field Day (as more of you probably know than I can imagine) is not a single-person event. Several of you have offered to lend wisdom from past events (there’s that head part), and I am specifically looking for both new and experienced people to help make this a fun event. If you know **right now** that you want to be in on the ground floor of what’s sure to be a tale for the ages, email me (Gerret) at kd8yuk@kd8yuk.org. If you’re like many people and would like to know specifically what kind of help is needed, future articles and club meetings will reveal that soon.

Gerret Peters, KD8YUK, is the LCARA Vice President and Waveguide Editor.



Where to go During a Total Communications Shutdown

from *Emergency Management Magazine*,
contributed by Kevin Boxey, KB8TAR

An interesting read about how important amateur radio operators are during an emergency.

<http://www.emergencymgmt.com/disaster/Where-to-go-During-a-Total-Communications-Shutdown.html>

Ham Radio Micro-controllers & Linux—Episode 43

from the *FO Time Podcast*,
contributed by Gerret Peters, KD8YUK

If you're not familiar with Arduino, Beaglebone, Raspberry Pi, and other such technophilic wonders, listen to this episode of the FO Time podcast. The hosts take you, the listener, on a fascinating journey through these technologies with a particular emphasis on implications for amateur radio. Great Stuff!

Note: the link is to an MP3 audio file. Use your favorite audio program (or Windows Media) to listen.

<http://traffic.libsyn.com/amateurradio15/43c.mp3>

North American QRP CW Club Releases Promotional Video

from NAQCC, contributed by Mike Zedan, KN8Z

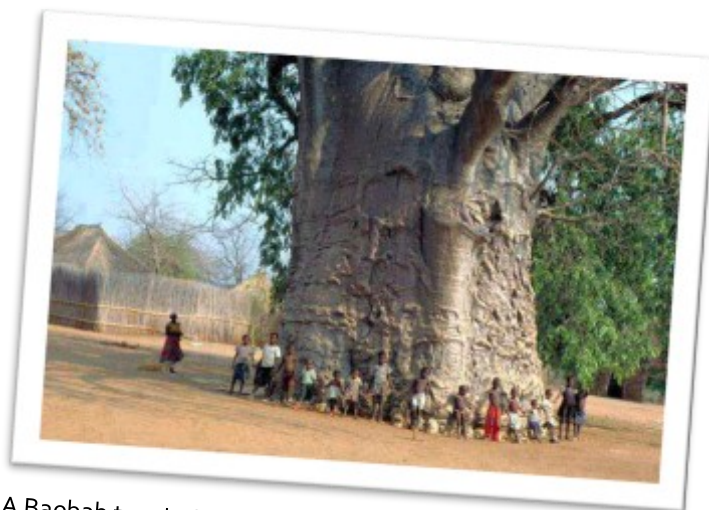
The NAQCC has produced a promotional video promoting the club. You can view the video on YouTube at the link below. If you are a CW fan, it's worth a gander!

<https://www.youtube.com/watch?v=WPRPJEgpw9w>

National Weather Service SkyWarn Spotter Training Scheduled

From NWS Detroit/Pontiac, contributed by
Mary Piorunek, Lapeer County Emergency Manager

Classes for spring have been scheduled. See page 21 for the class times and locations, and visit <http://www.weather.gov/dtx/spotter2> for more details.



A Baobab tree in South Africa—it may take more than a slingshot to get a line over the top of this one!
Contributed by Mike Zedan, KN8Z

New this month!
Send your radio-related tidbits to the editor at kd8yuk@kd8yuk.org for inclusion in a future issue of the Waveguide.

Upcoming Club Meetings

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!



MARCH 2016

Sun	Mon	Tue	Wed	Thu	Fri	Sat
		1 ARES Net 8pm 146.620 -100 Hz	2	3 Thurs. Net 8pm 442.750 +123 Hz	4	5
6 Sunday Nets	7	8 Club Mtg 7:30 pm Lapeer EOC No Net Tonight	9	10 Thurs. Net 8pm 442.750 +123 Hz	11	12
13 Sunday Nets	14	15 ARES Net 8pm 146.620 -100 Hz	16 	17 	18	19
20 Sunday Nets	21	22 ARES Net 8pm 146.620 -100 Hz	23	24 Thurs. Net 8pm 442.750 +123 Hz	25	26 Preparedness Expo
27 Sunday Nets	28	29	30	31		

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

March Events

3/1 to 3/15—N8LJ DXing from
Christmas Island (see article)

3/8—Club Meeting, 7:30pm

3/16—ARES Meeting, 7:00pm

3/17—St. Patrick's Day

3/26—Great Lakes Emergency
Preparedness Expo, Birch Run

April 2016

Sun	Mon	Tue	Wed	Thu	Fri	Sat
					1	2
3 Sunday Nets	4	5 ARES Net 8pm 146.620 -100 Hz	6	7 Thurs. Net 8pm 442.750 +123 Hz	8	9
10 Sunday Nets	11	12 Club Mtg 7:30 pm Lapeer EOC No Net Tonight	13	14 Thurs. Net 8pm 442.750 +123 Hz	15	16
17 Sunday Nets	18	19 ARES Net 8pm 146.620 -100 Hz	20	21 Thurs. Net 8pm 442.750 +123 Hz	22	23
24 Sunday Nets	25	26 ARES Net 8pm 146.620 -100 Hz	27	28 Thurs. Net 8pm 442.750 +123 Hz	29	30



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

April Events

4/12—Club Meeting, 7:30pm
4/20—ARES Meeting, 7:00pm

Upcoming Hamfests, Swaps, and other Events

Great Lakes

Emergency Preparedness Expo

March 26, 2016

Birch Run Expo Center,
Birch Run, Michigan

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

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

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

Dayton Hamvention Bus Trip

ARROW Communications Association in Ann Arbor is sponsoring a one-day bus trip to Hamvention—details on page 18!



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

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

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

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

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

**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
3/12	Oakland	Oakland County Executive Office Building - 2100 Pontiac Lake Road, Waterford, MI 48328	10am – 12pm
3/12	Oakland	Oakland County Executive Office Building - 2100 Pontiac Lake Road, Waterford, MI 48328	1pm – 3pm
3/14	St. Clair	St. Clair County Building - 200 Grand River Ave., Port Huron, MI 48060	7:00pm – 8:30pm
3/15	Huron	Huron County Fairgrounds - 170 W Soper Rd, Bad Axe, MI 48413	6:30pm – 8:00pm
3/16	Oakland	City Hall auditorium - 1000 Rochester Hills Drive, Rochester Hills, MI 48309	7:00pm – 8:30pm
3/19	Wayne	Garden City Presbyterian Church - 1841 Middlebelt Rd, Garden City, MI 48135	10am – 12pm
3/19	Washtenaw	Washington Street Education Center - 500 Washington Street, Chelsea, MI 48118	1:00pm – 2:30pm
3/21	Oakland	Groveland Township Fire - 14645 Dixie Highway, Holly, MI 48442	7pm – 9pm
3/22	Sanilac	Firebird Theater - 280 E Sanilac Road, Sandusky, MI 48471	7pm – 9pm
3/23	Washtenaw	North Campus Research Building - Research Auditorium - 2800 Plymouth Rd, Ann Arbor, MI 48109	1pm – 3pm
3/23	Wayne	Livonia Library - 32777 Five Mile Road, Livonia, MI 48154	7pm – 9pm
3/28	Saginaw	TBD	7:00pm – 8:30pm
3/29	Tuscola	Tuscola County Medical Care Facility Business Annex - 1285 Cleaver Rd (M-24), Caro, MI 48723	7:00pm – 8:30pm
3/30	Oakland	Southfield Library - 26300 Evergreen Road, Southfield, MI 48076	7:00pm – 8:30pm
4/1	Wayne	Trinity Lutheran Church Community Center - 465 Oak St., Wyandotte, MI 48192	7pm – 9pm
4/2	Macomb	Macomb ISD - 44001 Garfield, Clinton Township, MI 48036	10am – 12pm
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

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

Midland MI 48640-4474

Sponsor: Midland ARC
Date: Mar 12 2016
Time: 9:00 AM (Walk-ins allowed)
Contact: Dennis K. Klipa
(989) 948-5427
Email: n8erf@arri.net
VEC: [ARRL/VEC](#)
Location: Salvation Army Building
220 S Waldo Rd
Registration at 8:30am
Midland MI 48640-4474

Port Huron MI 48060-4014

Sponsor: Eastern Michigan ARC
Date: Mar 12 2016
Time: 10:00 AM (Walk-ins allowed)
Contact: Martin Smith
(810) 385-5584
Email: pioneer-2@att.net
VEC: [ARRL/VEC](#)
Location: St Clair County Library
210 McMorran Blvd
2nd Floor Meeting Room
Port Huron MI 48060-4014

Flint MI 48507

Sponsor: The KT8Q & W8ACW VE Teams
Date: Mar 19 2016
Time: 9:30 AM (Walk-ins allowed)
Contact: Jeffrey R. Pender
(810) 895-1408
Email: jeff@w8acw.org
VEC: [ARRL/VEC](#)
Location: Baker College of Flint-Tech Center
1050 W Bristol Road
Room S-103, Pre-reg preferred
Flint MI 48507

Mount Clemens MI 48043-2217

Sponsor: SAROF
Date: Apr 02 2016
Time: 7:30 PM (Walk-ins allowed)
Contact: Clifford W. Ibbs
(586) 567-0436
Email: ab8xq@arri.net
VEC: [W5YI VEC](#)
Location: Mt. Clemens Salvation Army Corps (rear entrance)
55 Church St
Mount Clemens MI 48043-2217

Port Huron MI 48060-4014

Sponsor: Eastern Michigan ARC
Date: Apr 09 2016
Time: 10:00 AM (Walk-ins allowed)
Contact: Martin Smith
(810) 385-5584
Email: pioneer-2@att.net
VEC: [ARRL/VEC](#)
Location: St Clair County Library
210 McMorran Blvd
2nd Floor Meeting Room
Port Huron MI 48060-4014

Flint MI 48507

Sponsor: The KT8Q & W8ACW VE Teams
Date: Apr 16 2016
Time: 9:30 AM (Walk-ins allowed)
Contact: Jeffrey R. Pender
(810) 895-1408
Email: jeff@w8acw.org
VEC: [ARRL/VEC](#)
Location: Baker College of Flint-Tech Center
1050 W Bristol Road
Room S-103, Pre-reg preferred
Flint MI 48507

Club **CLASSIFIEDS**—Stuff for Sale or Wanted

Gerret Peters, **KD8YUK** is looking for **coax** and **stranded wire** for an upcoming NVIS antenna project. Send email to KD8YUK@KD8YUK.ORG Also willing to participate in a bulk-buy if it saves money.

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

Don't let this page stay empty!

Include the item's condition, as well as (seller), and your Photos



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