

Waveguide

W8LAP / r

146.620 - 100 Hz

442.750 + 123 Hz

Lapeer County Amateur Radio Association

Club Founder: Hollis Hayes W8ACD

Edition for **April 2014**

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

ARES Net

Every Tuesday at 8:00 pm on 146.620 - with 100 Hz PL

(except club meeting nights)

Thursday Night Net

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

Meetings

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

Newsletter

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

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

Facebook: Lapeer County Amateur Radio Association

Editorial Section

The President Says:

Hello all.

Please don't forget that we have Skywarn training this month and especially don't forget to pre-register. I am not sure of the exact arrangements this year but we are being told that pre-registration is required. The instructions (website) are on the announcement later in the Waveguide.

Thanks to N8LJ for setting up an outside speaker for the May club meeting. Joe Miller, KJ8O, will be giving a description of the more common digital modes, particularly for EMCOMM usage. Also, the talk will include a description of the equipment and software needed to operate digital modes. So please plan on taking full advantage of this opportunity.

That's really all for now. I hope to see you on the 8th.

Kevin KB8TAR

The Treasurer Says:

Greetings to everyone. As I write this I can finally see some grass peeking through the snow piles. Field Day and Operation Care can't be far away. It seems that with the cold and inclement weather that winter has been extra long, but maybe it may only be because I am just old and can't deal with it as well. Oh well so be it. This too will pass.

Now down to business. The treasury did have to take the usual spring time hit this past month. The liability and property insurance policies come due. Those two combined come to well over three hundred dollars, and that is the biggest hit that we have to face all year. The problem with that is our working funds in the checking account is getting lower that I like to see it. So it time for me to make my usual plea to please help out by volunteering for Operation Care this summer.

Operation Care is what keeps our club solvent. If it didn't our dues would have to go up astronomically. Just to pay the electric, phone, and the two insurances with dues alone our twenty paid members would have to pay about \$70.00 each. I am not sure that you would be willing to do that. So volunteer for Operation Care this summer.

It is too late for this year, but someone could pick up the reins for another swap and shop. I would be more than willing to help someone proceed with that idea. Maybe it isn't too late. We could do a small local swap in a parking lot somewhere.

Ok, enough of my rambling on. We still have adequate funds to run the club for a long time to come. So get out there and clean up your yards and antenna damage and proceed with amateur radio.

Respectfully, William Miller KD8VP Treasurer

The Secretary Says

The meeting was called to order at 7:30 with the Pledge of Allegiance to the flag and introduction of members and guest. There was no hospital reports. Nancy Kott passed away. The secretary report was read by Flo, KC8CAB. It was accepted by Dick, KC8VHA and seconded by Dave, K8DLW. The treasurers report was read by Bill, KD8VP. It was accepted by Mike, KN8Z and seconded by Chris, KC8TWL. The repeater is doing just fine says Mike, KN8Z. Do not forget to register for Skywarn on April 17, 2014. EC report will be testing again for long tone zero at the tornado testing. The days for Operation for Memorial Day is May 23 to 26; Independent Day is July 3 to 6; and Labor Day is August 29 to Sept 1. Bill, KD8VP is working on a different phone line. Break was from 7:53 to 8:00. A presentation by Gordon, KD8TXW. It was about HSHH MESH part 2. 50/50 was won by Chris. KC8TWL. Meeting closed at 8:48p.m.

Editorial Section

The Trustee Says:

Hello W8LAP Supporters:

There were no actions in administering W8LAP, between February 18, 2014, and March 25, 2014, nor were any maintenance or adjustments required on equipment at the repeater site.

Last Month's Site of the Month:

For the second month in a row, the links posted in the previous Waveguide had additional characters added to the URL links, which drew error web pages. The reason is, probably, in the way I'm pasting the links into my pre-publish notes. Here are corrected links to last month's Trustee Notes:

Time Nut Presentation: http://arvideonews.com/hrn/HRN_Episode_0130.html

Tom's Leap Second site: <http://leapsecond.com/>

Powers of Ten: <http://www.youtube.com/watch?v=qxXf7AJZ73A>

A different Powers of Ten: <http://www.youtube.com/watch?v=OfKBhvDjuy0>

This month's Sites:

Musical Morse Code

Many people are familiar with the Morse Code "V" (dit dit dit dah) that pervades Beethoven's Fifth Symphony. The Beethoven/Morse Vs were so popular during WWII that the Allied countries adopted this symphony as their unofficial musical accompaniment to their slogan, "V" for Victory. It mattered not one bit that Beethoven was German, and wrote the music a full thirty years before Morse developed his code. To the Allies, it fit their purpose, and that was good enough. Thus, a generation who, with the exception of Ham, military, and news radio operators, knew nothing of Morse Code could tell you what the Morse Code V sounded like.

Jump forward several decades, and discover a music writer named Barrington Somers Pheloung (Note 1), who composed the music for the widely acclaimed series *Inspector Morse* (Note 2). This series was televised in the U.S. as part of Masterpiece Mysteries. I was taken by the characterizations, themes, plots, and music, and am happy to watch them repeatedly.

One thing that Pheloung did was to occasionally include Morse Code within the score for *Inspector Morse*. Sometimes he would name the villain, and other times he would include a red herring to throw viewers off track. A sample of this may be heard in the final episode of *Inspector Morse*. The YouTube video is included below. It starts with a dialogue exchange between the main characters, then goes to the credits, with the theme music playing. Listen carefully to the strings (then high winds) playing M - O - R - S - E throughout. Even though Pheloung didn't quite stick with the exact requirements for element spacing, the code comes through in a way that fits well with the haunting theme.

YouTube: <http://www.youtube.com/watch?v=zM1HiGuVWsw>

Note 1: http://en.wikipedia.org/wiki/Barrington_Pheloung

Note 2: http://en.wikipedia.org/wiki/Inspector_Morse_%28TV_series%29

What? Morse Code on a wine label?

There's no mistake here. An Australian wine maker, Henry's Drive Vignerons, uses Morse code to identify some of their wine types. (Note 3). Look about a half page down the wine listings for "Morse Code Chardonnay," and "Morse Code Shiraz."



Henry's Drive began using Morse Code on their labels as a link with the history of the winery site. The site is on what used to be a stop for the Australian Mail Coach Service. Coincidentally, the stop was also a part of the telegraph service, much like American train stops were also telegraph offices. The founders of the winery thought that including Morse Code on their labels would carry a bit of history to their product, and to "...honour the Morse Codian Fraternity with this collection of fine wines."





Note 3: <http://www.henrysdride.com/wine-shop/browse-the-cellar>

If you have any comments about this column or suggestions for a Site of the Month, address them to KN8Z at ARRL.net.

73 All, Mike, KN8Z

2014 2014 2014 2014 2014 2014 2014 2014 2014

April						
Sun	Mon	Tue	Wed	Thu	Fri	Sat
		1 ARES net 146.620+ 100 Hz PL at 8 pm	2	3 ARES net 442.750+ 123 Hz PL at 8 pm	4	5 LTZ test at 1:00 pm
6 -ARPSC @ 5:00 pm on 3.932 -D3 net 145.31+ 131.8 Hz PL at 6:30 pm	7	8 LCARA club meeting 7:30 pm at the EOC	9	10 ARES net 442.750+ 123 Hz PL at 8 pm	11	12 SWAP - MILFORD
13 -ARPSC @ 5:00 pm on 3.932 -D3 net 145.31+ 131.8 Hz PL at 6:30 pm	14	15 ARES net 146.620+ 100 Hz PL at 8 pm	16		18	19 -T&C
20 	21	22 ARES net 146.620+ 100 Hz PL at 8 pm	23	24 ARES net 442.750+ 123 Hz PL at 8 pm	25	26
27 -ARPSC @ 5:00 pm on 3.932 -D3 net 145.31+ 131.8 Hz PL at 6:30 pm	28	29 ARES net 146.620+ 100 Hz PL at 8 pm	30			
Phases of the moon: 7:☾ 15:☾ 22:☾ 29:●						
Holidays and Observances: 13: Thomas Jefferson's Birthday, 20: Easter Sunday						

May						
Sun	Mon	Tue	Wed	Thu	Fri	Sat
				1 ARES net 442.750+ 123 Hz PL at 8 pm	2	3 LTZ test at 1:00 pm SWAP - CADILLAC
4 -ARPSC @ 5:00 pm on 3.932 -D3 net 145.31+ 131.8 Hz PL at 6:30 pm	5	6 ARES net 146.620+ 100 Hz PL at 8 pm	7	8 ARES net 442.750+ 123 Hz PL at 8 pm	9	10
11 -ARPSC @ 5:00 pm on 3.932 -D3 net 145.31+ 131.8 Hz PL at 6:30 pm	12	13 LCARA club meeting 7:30 pm at the EOC	14	15 ARES net 442.750+ 123 Hz PL at 8 pm	16	17 -T&C SWAP - DAYTON
18 SWAP - DAYTON	19	20 ARES net 146.620+ 100 Hz PL at 8 pm	21	22 ARES net 442.750+ 123 Hz PL at 8 pm	23 	24 
25 	26 	27 ARES net 146.620+ 100 Hz PL at 8 pm	28	29 ARES net 442.750+ 123 Hz PL at 8 pm	30	31
Phases of the moon: 6:☾ 14:☾ 21:☾ 28:●						
Holidays and Observances: 11: Mothers' Day, 26: Memorial Day						

2014 2014 2014 2014 2014 2014 2014 2014 2014

Former WorldRadio Editor, CW Activist Nancy Anne Kott, WZ8C, SK:

03/04/2014 CW promoter Nancy A. Kott, WZ8C, of Metamora, Michigan, died March 2. She was 58. Kott was the former editor of *WorldRadio* and *WorldRadio Online* magazines. She was an enthusiastic member of the [FISTS CW Club](#) — the International Morse Preservation Society and a regular presence at the organization's booth at Dayton Hamvention.

"There is something magical about being able to put two wires together and start going dit-dit-dit dit-dit," Kott [told](#) *The New York Times* in 2006, after the FCC had proposed dropping the Morse code requirement to acquire HF amateur privileges. "We are just going to have to get on the air and do what we do and hope for the best."

Kott was an honorary member of the [Texas DX Society](#) and a member of the TDXS DXpedition to Belize in 2006, recalled Steve Smothers, W9DX, who called Kott "an accomplished brass pounder and one of FISTS' most active members and promoters." She also operated as VP2V/WZ8C in 2007.

Kott was a member of the ARRL's [A-1 Operator Club](#). Professionally she was a field representative for the Centers for Disease Control and Prevention ([CDC](#)). Survivors include her husband, Tim Lange.

HOW INMARSAT USED THE DOPPLER EFFECT TO TRACK DOWN MH370'S LAST KNOWN POSITION

British satellite firm Inmarsat discovered on March 9 that MH370 had continued flying for at least another six hours after its last voice transmission from the cockpit at 1:19 am on Saturday March 8.

It knew this from an electronic 'handshake' that the plane gave to one of its satellites. This placed it in one of two corridors, running north to Kazakhstan, or south to the Indian Ocean.

The satellite received several more pings from the aircraft, but Inmarsat weren't immediately able to work out its trajectory because the satellite isn't GPS enabled. However, the pings contained hidden clues in their wave frequencies. Inmarsat, using some very clever mathematical modelling, deduced that the frequency of the waves were changing in a way that gave away the plane's locations.

It's called the Doppler effect, named after the Austrian physicist Christian Doppler, who proposed it in 1842.

He noticed how wave frequencies changed as an observer moved around the source. In modern life we experience it frequently as the sounds of sirens from emergency service vehicles change as they move away from us.

A similar effect was occurring with MH370 that enabled Inmarsat to rule out a northerly trajectory. The frequencies of the pings it was returning meant it was travelling south.

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Stuff for Sale

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If you have something to sell please send an email with the details to kevinboxey@hotmail.com to be included in the Waveguide listing.

Public Service Event Schedule

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

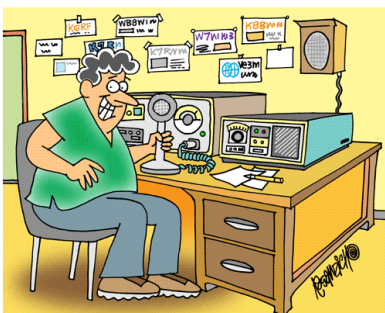


Skywarn training - 17 April 2014
Memorial Day Op CARE - 23 to 26 May 2014
Big Fish Triathlon - 08 June 2014
July 4th Op CARE - 3 to 6 July 2014
Atwood race (Genesee) - 19 July 2014
Crim 10 mile race (Genesee) - 23 Aug 2014
Labor Day Op CARE - 29 Aug to 01 Sept 2014



APRIL MEETING PRESENTATION

KB8YGA is planning on giving a presentation at the April club meeting. If Will is unable to attend then we will have a video on the technique of raising a 72 foot tower.



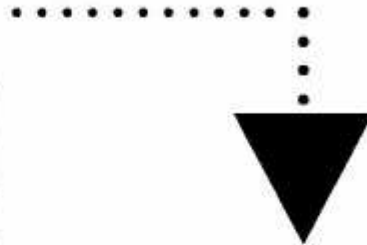
Don't forget to join your fellow hams on the LCARA nets

• **Tuesday** night at 8:00 pm on 146.620 - with 100 Hz PL

and

• **Thursday** night at 8:00 pm on 442.750 + with 123 Hz PL

Announcement



2014 TORNADO SPOTTER TRAINING

April 17, 2014

7:00 p.m.

at

Lapeer East High School

933 Saginaw Street

FREE

Pre-Registration is required at:

www.LapeerSkywarn.org

For More Information on being a spotter check out: www.crh.noaa.gov/dbx/skywarn.htm

SPONSORED BY:

Lapeer County Amateur Radio Association
Lapeer CERT
National Weather Service-White Lake
Lapeer County Office of Emergency Management

Announcements

2014 LAPEER COUNTY TORNADO SIREN TEST SCHEDULE

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



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

Saturday, **April 5th**

Saturday, **May 3rd**

Saturday, **June 7th**

Saturday, **July 5th**

Saturday, **August 2nd**

Saturday, **September 6th**

Saturday, **October 4th**

**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.

An Introduction to HSMM-Mesh

Presented at the Lapeer County Amateur Radio Association meeting

HSMM-Mesh presentation 2 Adding WAPs and FTP Server

KD8TXW- Gordon Miller

March 2014

LCARA meeting

WAP- WiFi Access Point
FTP- File Transfer Protocol

Both HSHH MESH presentations will be uploaded to the club website soon. Thanks again to Will and Gordon for their efforts.

Public Service events outside of Lapeer County

ALCONA

- *Clean up event at fair grounds, May 11 7:30 am to 2:00 pm. 2 shifts need 6 operators.*
- *July 4th activities to be held in harbor.*
- *Last weekend in July canoe races will need 2-3 operators.*

GENESEE

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

MIDLAND

- *MS walk April 27th, meets at Collins and Rodd streets. 8:30 through noon. HQ is the Salvation Army communications vehicle. Frequency 147.000+.*
- *Dow run May 17th. Meets at Midland community center, Collins and George streets. 7:00 am through noon. HQ is the Salvation Army communications vehicle. Frequency 147.000+.*
- *Great Lakes marathon May 18th. Meets at Down Diamond, Main and State streets. 6:30 through 3:00 pm, frequency 147.000+.*

OSCODA

- *First dam 5K run in August.*
- *Nor'easter festival last weekend in June, 7:00 am to 7:00 pm.*

SAGINAW

- *MS walk May 11th at 8:30 am. Meet at 601 Weiss Street, Frankenmuth. Frequency 147.240 pl 103.5.*
- *County emergency test May 16th at MBS.*
- *Run for Windy May 19th at 8:00 am. Meet at Swan Valley high school. 8-10 operators needed.*

TUSCOA

- *Bike rally from Caro to Sebawing and back June 7 and 8. Need 6 operators each day. Approximately 4 hours per day.*

Hamfest information



Dayton Hamvention® 2014
Makers... The Future of Ham Radio

May 16-18 2014

Milford Amateur Radio Club **Swap-N-Shop**



Saturday, April 12, 2014 - 8:00 AM - 12 Noon

Buy or Sell Amateur Radio Gear,
Computers, & Electronic Equipment

MILFORD HIGH SCHOOL
2380 South Milford Road
Highland, MI
(About 1 Mile North of Milford)

Tables: \$1.50 per Foot. Electrical Outlet: \$2.00

Food Concession & Door Prizes



Tickets: By Mail \$5.00 or \$6.00 at the Door.

Under 12 - FREE. Set-Up: After 3:30 PM Friday and 6:00 AM Saturday

For Information
Visit us Online at:

<http://www.qsl.net/w8ydk>

Talk-In: 145.490 - (67 Hz PL)
(N8BIT Repeater - White Lake)

146.52 Simplex - Back-Up Freq.

To Purchase Tickets, Tables
or More Information
CONTACT:

Rose Mary Moore
KC8NQJ
810-632-5174



HAMFEST/CONVENTION
05/03/2014 | Cadillac Amateur Radio and Computer Swap
Location: Cadillac, MI
Type: ARRL Hamfest
Sponsor: Wexauke Amateur Radio Club
Website: <http://www.wexaukearc.org/>
[Learn More](#)



HAMFEST/CONVENTION
06/15/2014 | Monroe Hamfest
Location: Monroe, MI
Type: ARRL Hamfest
Sponsor: Monroe County Radio Communications Association
Website: <http://www.mcrcra.org>
[Learn More](#)



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

Hamfest information

Arrow Communication Association

Serving Radio Amateurs in Washtenaw and Wayne Counties

<http://www.w8pgw.org/activities/dayton-bus-trip/>

The best way to get to Dayton is with ARROW

- NO PARKING FEES
- NO SHUTTLE BUS FARE
- NO CAR OR GAS EXPENSES
- CONTINENTAL BREAKFAST ON BOARD
- SELL YOUR GEAR AT OUR FLEA MARKET BOOTH

We're expecting a sell-out trip, so make your reservations early!

Take the bus with us!

Dayton Hamvention 2014



Saturday, May 17, 2014

Sponsored by the
ARROW Communication Association

Arrow Communication Association
3322 Yellowstone Drive
Ann Arbor MI 48105

The **ARROW Communication Association** is once again proud to sponsor a motor coach trip to the **2014 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 400 hams for this event.

Join us **Saturday, May 17, 2014**, when we depart from Ann Arbor 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 an attended booth space in the flea market. If you buy a bus ticket, you can sell your stuff at our booth. All we ask is that you volunteer for one hour at the booth. The cost of the booth alone is \$70.00, more than the cost of the bus 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 2014 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 2014 trip, go to our website and click the Dayton bus trip link under Activities.

All ticket purchases **RECEIVED** by 4/9/2014 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 4/9/2014 and winners will be contacted.

Contact information:

John Wasciuk, WA8TON
Phone: (616) 560-3365
e-mail: activities@W8PGW.org

Yes!!! Sign me up!!!

Name/Call Sign _____

Address _____

City/State/Zip _____

Telephone _____

E-mail (correspondence via e-mail) _____

Will you need hotel information for the night of 5/16/14? _____

How did you hear about us? _____

of tickets _____ \$ amount enclosed _____

☐ I would like to join the ARROW for \$20.00 a year.

Make check/money order payable to:
ARROW Communication Association

Send Order Form and payment to:
ARROW Communication Association
3322 Yellowstone Drive
Ann Arbor, MI 48105

PayPal is available through the website:
www.w8pgw.org

Prices

Ticket Price \$65 (\$60*)
Member Discount Price \$55 (\$50*)
ARROW Yearly Membership \$20

*If received by 4/1/2014.

L.C.A.R.A. MEMBERSHIP APPLICATION

PLEASE PRINT:

CALL SIGN: _____ NAME: _____

ADDRESS: _____

CITY ,STATE, AND ZIP: _____

PHONE : _____ LICENSE CLASS: _____

SKYWARN NO.: _____ RACES NO: _____

ARES MEMBER YES ___ NO ___ E-MAIL ADD.: _____

ARE YOU AN A.R.R.L. MEMBER: YES ___ NO ___

L.C.A.R.A. MEMBERSHIP IS \$12.00 PER YEAR, RENEWABLE EACH YEAR ON **OCTOBER. 1ST.** FAMILY MEMBERSHIP \$20.00. ASSOCIATE MEMBERSHIP \$4.00. IF YOU WISH AN AUTODIAL NUMBER FOR THE REPEATER THERE IS AN ADDITIONAL \$3.00 CHARGE. Financing available.

Lapeer County Amateur Radio Association

P.O. Box 12

Hadley, MI 48440-0012

Lapeer County Amateur Radio Association

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

Officers

President: Kevin Boxey KB8TAR, 810-793-4986
Vice President: Tom Oliver KD8EBY, 810-247-3227
Treasurer: Bill Miller KD8VP, 810-797-5329
Secretary: Flo Haack KC8CAB, 810-793-2606

Committees and Appointees

Club Call Trustee W8LAP: Mike Zedan KN8Z
Repeater technical team: Lee N8LJ & Will KB8YGA
Skywarn Coordinator: Tom Oliver KD8EBY
Meeting Refreshments: Bill Miller KD8VP
Newsletter Editor: Kevin Boxey KB8TAR
Net Manager: Tom Oliver KD8EBY
Testing Coordinator: **Volunteer needed**
County EC: Tom Oliver KD8EBY
County AEC: Joe Medved KD8CIL
County AEC: Kevin Boxey KB8TAR

