

# Waveguide

## Lapeer County Amateur Radio Association

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

Club Founder: Hollis Hayes W8ACD

## The (Newbie) President Says

Hello all LCARA members,

In the last couple of months our club has needed to make some leadership changes due to new commitments and work schedule conflicts by President (Kevin, KB8TAR) and Vice President (Tom, KD8EBY). Kevin has taken over the EC responsibilities that Tom had to give up. I've really appreciated their strong leadership of the club. I'd like to thank Gerret, KD8YUK for taking on the Vice President and Waveguide Editor responsibilities. And I'm also glad that Lee, N8LJ and Bill, KD8VP can continue as Secretary and Treasurer, respectively.

So a little about me. My wife Valeri and I have been married for 28 years. We have 7 kids and 10 grandkids. I'm an Engineer at Nexteer Automotive in Saginaw. I have a BAS in Electronics Technology from UM-Flint (via Mott CC). I've been an amateur radio operator for 2 1/2 years and have a General license. I most enjoy the solder and smoke part of the hobby. What I hope to



November 2015

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### W8LAP / r Repeaters

146.620 - 100 Hz

442.750 + 123 Hz

### Next Club Meeting

**Tuesday, November 10th**

**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

Every Thursday 8:00pm

442.750 + 123 Hz PL



### ***The President Says, continued...***

bring to the club is my enthusiasm for electronics, kit building and learning the various aspects of the radio arts.

I hope to see you all at the November meeting, where Kevin, KB8TAR will give a presentation on Emergency Communications and ARES. And I'd like to give a short presentation on a QRP-Labs HF beaconing kit that I'm building. You can check it out at <http://www.qrp-labs.com>.

Please remember our Christmas dinner will be December 8th at Ted's Sports Pub. A room is reserved for us starting at 6:00 pm. We're hoping to have another good turnout this year.

**Gordon Miller**  
KD8TXW

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*“Remember our year starts in October  
each year. Dues are due now.”  
— Bill Miller, KD8VP*

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## **View from the Veep Seats**

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A little over twenty years ago a young man lived on a military base in Massachusetts, learning about radios, and Morse Code and how the ionosphere worked. He went on to serve on two continents as a radio operator before completing a successful tour of duty for his country. The young man's reasons for taking up arms (or more properly headphones, radio and antennae) in defense of his country are a story for another time, but they laid a deep foundation, an abiding interest in technology and the ways it connects people together.

### **Officers**

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#### **President**

Gordon Miller  
KD8TXW

#### **Vice President**

Gerret Peters  
KD8YUK

#### **Treasurer**

Bill Miller  
KD8VP

#### **Secretary**

Lee Dziekan  
N8LJ

### **Committees and Appointees**

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#### **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

#### **County EC**

Kevin Boxey, KB8TAR  
810-728-1481

#### **County AEC—SkyWarn**

Tom Oliver, KD8EBY

#### **County AEC—Operation Care**

Tom Oliver, KD8EBY

### View From the Veep Seats, continued...

Moving forward in time, that young man collected many elements of the American Dream: a wife, seven sons, an interesting career and a house in the suburbs. Then a tornado passed through that neighborhood, and the man understood that community is more than a picket fence and a gas grill. So the man moved his family to southern Metamora Township, and set about becoming a part of a community of people ready to help others in need.

Recognizing he had arrived at a time and place where he had an opportunity to recall that deep foundation and interest in technology, the (now somewhat older) man obtained an amateur Technician license, and a while later, shepherded a son into his own ticket. Just to make things interesting, he picked up a General ticket, too.

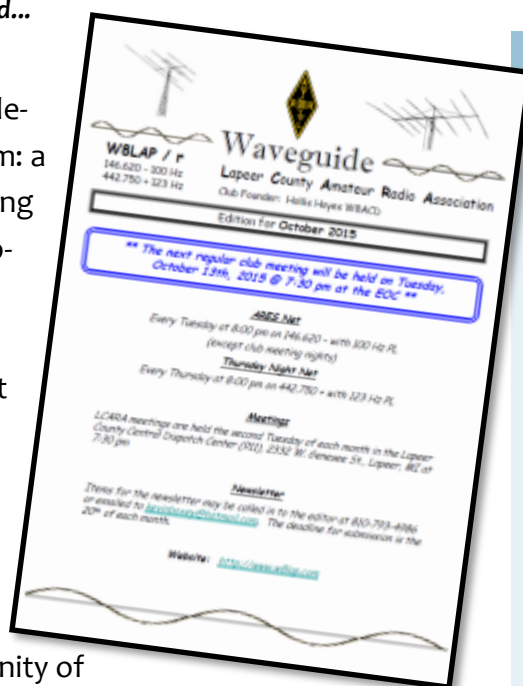
As you've probably guessed, the young man was me. I am excited to be involved with LCARA on at least two fronts, as Vice President and as the Waveguide Editor.

Professionally I have been a soldier, a web programmer, software project manager, trainer and communications specialist, among other duties. I'm looking forward to offering what I can to the club, and learning about the hobby from the many experienced members. As a starting point I'm interested in the emergency aspects of the service, but am curious about ... just about everything.

Looking forward to getting to know you all better,

**Gerret Peters,**

KD8YUK



### What Happened to the Waveguide?

That's a great question! Gerret Peters, KD8YUK has assumed editorial responsibility for the club newsletter, and is making a few cosmetic changes to the Waveguide.

This is partly due to moving from Microsoft PowerPoint to Microsoft Publisher as a platform, and also positioning the newsletter for some future enhancements that will be easier to accommodate with the new format.

The **BIGGEST** change this month might just be the font size, now a respectable 11 points in defense of our eyes, which are better served staring at a radio or surface-mount component. Feedback, both positive and constructive can be directed to [gerret.peters@gmail.com](mailto:gerret.peters@gmail.com).

## The Treasurer Says

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Greetings to one and all,

As I look out the window I am looking at a gorgeous fall day. That is significant because last week (10-17-15) I was up in Marquette, MI and there was two inches of snow on my car when I woke up. Warning! Get those antennas up before it is too late. By the way I am just as guilty as you are.

Big changes happened last meeting, talk about a change up. I want to welcome Gordon Miller, KD8TXW to the presidency, as well as Gerret Peters, KD8YUK to Vice President (and new Waveguide editor).

To our outgoing president Kevin Boxey, KB8TAR, I want to extend by heart felt THANK YOU. Kevin has graciously taken over the job as Amateur Radio Emergency Coordinator from Tom Oliver KD8EBY who was unable to continue in the position.

The best part of all, the room was crowded to see all of this happen. That just happened to work out, for most paid their dues to bolster the club treasury. **Remember our year starts in October each year. Dues are due now.**

With a good year from donations at Operation Care and the dues being paid our treasury is in good shape to start the year. We have adequate savings to overcome any major problems with our repeaters, so I would say good job to one and all.

I look forward to another good year for the Lapeer County Amateur Radio Association.

Respectfully submitted,

**William Miller**  
KD8VP

### Club Meetings

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

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

**2332 West Genesee Street**

**Lapeer, MI 48446**

**All are welcome.**

## The Secretary Says

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### **LCARA Meeting Minutes, October 13, 2015**

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

Kevin, KB8TAR tendered his resignation as President of LCARA because he has been promoted to Lapeer County Emergency coordinator.

Gordon Miller, KD8TXW was nominated by Will KB8YGA to be president. The nomination was seconded by Dan, KC1BUD and by unanimous approval by the membership present, Gordon, KD8TXW ascended to the presidency of LCARA.

An ARRL achievement award was presented to past president Kevin, KB8TAR, by District 3 Emergency Coordinator, Dave, N8LBF, acknowledging Kevin's promotion to Lapeer County's Emergency Coordinator.

Gerret, KD8YUK agreed to take on the responsibility of the publishing the Waveguide.

A big Thank You to Gerret and Gordon for taking on responsibilities to keep the club moving forward.

The Meeting Minutes from September meeting were read and approved by the members present.

The Treasurer's report was presented and approved by the members present. Labor Day Operation Care was one of the more successful ones as compared to the last few years.

The W8LAP website has been successfully moved to a new host. Thank You Gerret and Dave, KD8GXW. Lee, N8LJ requested a couple of folders on the site (password protected) for preservation of past and present documents, tower lease paper work, repeater commands, lessons learned, repeater pair coordination paper work, etc.

Mike, KN8Z reported the repeaters are running fine. The repeater pair and link coordination/ registration was renewed. The North Branch link is running successfully and is enabled.

### **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



### ***The Secretary Says, continued...***

During severe weather alerts, the Lapeer Repeater will accept NWS reports on the link from North Branch to be broadcast during weather nets.

The Christmas get together will be at Ted's Pub, December 8<sup>th</sup> at 6pm. This is in lieu of the December meeting. Remember to invite your significant others as this is a family affair. Like last year, you order off the menu and pay your own tab.

The EC report by Kevin requested an agenda item at each meeting. The radio equipment ordered many years ago by an EC grant has formally been transferred to the LCARA ownership. Kevin will supply a list of the equipment at the next meeting. A discussion regarding insurance coverage ensued and it was determined that the age of the equipment did not warrant extra coverage. If it breaks, we will deal with it as an individual basis.

Kevin will request two additional coax antenna lines be made available from our EOC operating position to the outside of the building to facilitate HF operation. If the HF capability becomes a reality, Kevin will also request permission for club members to utilize the EOC facility for amateur radio events that allow credit for EOC amateur operations.

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### ***LCARA Christmas Dinner***

***The club Christmas dinner will be at Ted's Pub,  
December 8th at 6pm. Remember to invite your  
significant others as this is a family affair.  
770 West St. Lapeer, MI 48446***

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There is a District 3 HF exercise October 24, 10 am till noon. The purpose is to evaluate local counties ability to communicate over a wider area utilizing HF frequencies on 80m (3932 kHz LSB) -60m Channel 2 (5346.5 kHz USB)-40m (7232 kHz LSB). All are invited to participate including listeners only. Contact Kevin for specific contact info.

Kevin is scheduled for our November meeting presentation. Mike KN8Z won the 50-50. Meeting adjourned 8:52 pm.

Respectfully submitted,

**Lee, N8LJ**

### **Newsletter**

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Items for the newsletter may be emailed to the editor at [gerret.peters@gmail.com](mailto:gerret.peters@gmail.com), 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 Trustee Says

Hello W8LAP Supporters:

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

The bi-annual submissions for coordination of the W8LAP repeater frequencies were requested from the Michigan Area Repeater Council (MIARC) this October 4th. Acknowledgement of the submission was received the next day, and MIARC posted acceptance on October 18th.

The reason for the above is so that MIARC will deny submissions for repeater pairs that might interfere with W8LAP. MIARC uses parameters that determine the possibility of repeaters with identical, or nearby, frequency pairs from causing interference between them. In cases where interference becomes a problem, between a coordinated pair and uncoordinated pair, the coordinated pair is given precedence by the FCC. The users of the uncoordinated pair are required to find a non-interfering frequency pair through the coordinating activity.

### This Month's Links

#### Summits On The Air (SOTA) in Lapeer?

SOTA is Ham activity on the high frequency bands that encourages operation from mountain (or hill) tops around the world. There are point credits, leading to various certificates, for Activators (those operating on summits) and Chasers (operating from home) and combinations of these.

The main organization is located in UK, with associations in many world areas. There are, currently, 106 SOTA associations.

The USA is a natural for such activity. If North America doesn't have mountains and high hills, then nobody does. There are hundreds in the United States. To get some idea of the number in the US, there are Google Earth SOTA overlays (.kml) available for all over the

### Trustee Links

#### MIARC Repeater Directory

[http://www.miarc.com/repeater\\_directory.html](http://www.miarc.com/repeater_directory.html)

#### Summits on the Air (SOTA)

<http://www.sota.org.uk/>



### ***The Trustee Says, continued...***

globe (see links in the sidebar).

In Michigan, the association manager is N8LBF for both peninsulas, with 63 registered sites in the upper, and 33 in the lower.

An interesting note is that, of the 33 in the Lower Peninsula, only two are below Clare; one near Muskegon, and the other in Lapeer County. This is Mount Christie, located in Metamora Township, on Saratoga Drive. Saratoga Drive is one mile west of M-24, on West Davison Lake Road. Mount Christie is about 1200 feet above sea level, which is only 300 feet higher than DuPont Airport near Lapeer city.

So, our Lapeer SOTA is a mole hill, compared with some sites in mountainous states.

*[Editor's note: See the sidebar for links to Lapeer SOTA maps at several websites.]*

Many U.S. SOTA sites are on public land, but many are on private property. The SOTA web pages contain some interesting stories of how much effort Hams have gone through to get permission to operate from private summits.

By all appearances, Mount Christie is on private property, so **don't just grab your portable gear and go there. Get permission** (I have no information about who owns Mt. Christie).

See you at the next meeting,

**Mike**

KN8Z (kn8z at arrl.net)

### **Trustee Links**

#### **Google Earth SOTA overlays**

<http://www.on6zq.be/w/index.php/SOTA/SOTA>

#### **Michigan Association Manager**

<http://www.sota.org.uk/Associations/viewAssociation/prefix/W8M>

#### **Lapeer SOTA Maps**

##### **DuPont Airport**

<http://www.anyawos.com/KD95>

#### **At Google**

<https://www.google.com/maps/place/42%C2%B053'05.6%22N+83%C2%B019'31.8%22W/@42.8824542,-83.3213377,1339m/data=!3m1!1e3!4m2!3m1!1s0x0:0x0:hl=en>

#### **At SOTA**

<http://www.sotamaps.org/index.php?smt=W8M/LP-009>

#### **At YouTube**

<https://www.youtube.com/playlist?list=PL4810473C296E0824>



## The Radio Amateur's Code

### The Radio Amateur is:

**CONSIDERATE...** He never knowingly operates in such a way as to lessen the pleasure of others.

**LOYAL...** He offers loyalty, encouragement and support to other amateurs, local clubs, the IARU Radio Society in his country, through which Amateur Radio in his country is represented nationally and internationally.

**PROGRESSIVE...** He keeps his station up to date. It is well-built and efficient. His *operating practices* is above reproach.

**FRIENDLY...** He operates slowly and patiently when requested; offers friendly advice and counsel to the beginner; kind assistance, cooperation and consideration for the interests of others. These are the marks of the amateur spirit.

**BALANCED...** Radio is a hobby, never interfering with duties owed to family, job, school or community.

**PATRIOTIC...** His station and skills are always ready for service to country and community.

— adapted from the original *Amateur's Code*, written by Paul M. Segal, W9EEA, in 1928.

— Contributed to this edition of the *Waveguide* by Gordon Miller, KD8TXW

## NOVEMBER PRESENTATION

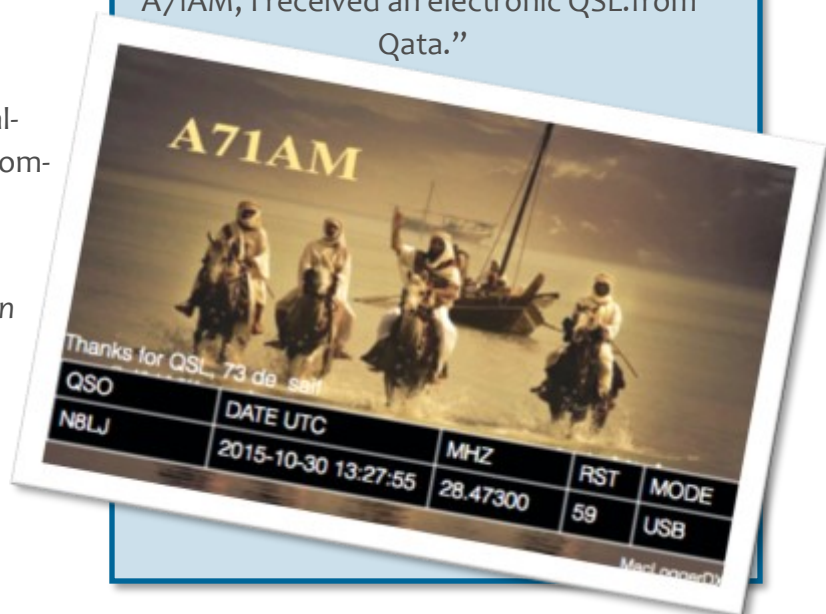
The club presentation for November will be on one aspect of Emergency Communication preparedness by Kevin Boxey, KB8TAR.



## QSL of the Month

Contributed by Lee Dziekan, N8LJ

Lee reports, "Within an hour of working Saif, A71AM, I received an electronic QSL from Qata."



# NOVEMBER 2015

Sun	Mon	Tue	Wed	Thu	Fri	Sat
1 	2	3 <b>ARES Net</b> 8pm 146.620 -100 Hz	4	5 <b>Thurs. Net</b> 8pm 442.750 +123 Hz	6	7
8 <b>Sunday Nets</b>	9	10 <b>Club Mtg</b> 7:30 pm Lapeer EOC	11 	12 <b>Thurs. Net</b> 8pm 442.750 +123 Hz	13	14
15 <b>Sunday Nets</b>	16	17 <b>ARES Net</b> 8pm 146.620 -100 Hz	18	19 <b>Thurs. Net</b> 8pm 442.750 +123 Hz	20	21
22 <b>Sunday Nets</b>	23	24 <b>ARES Net</b> 8pm 146.620 -100 Hz	25	26 	27	28
29 <b>Sunday Nets</b>	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

## November Events

**1st—Daylight Savings**  
Fall Back 1 Hour

**10th—Club Meeting**  
7:30pm Lapeer EOC

**11th—Veterans Day**

**26th—Thanksgiving**

# DECEMBER 2015

Sun	Mon	Tue	Wed	Thu	Fri	Sat
		1 <b>ARES Net</b> 8pm 146.620 -100 Hz	2	3 <b>Thurs. Net</b> 8pm 442.750 +123 Hz	4	5
6 <b>Sunday Nets</b>	7	8 	9	10 <b>Thurs. Net</b> 8pm 442.750 +123 Hz	11	12
13 <b>Sunday Nets</b>	14	15 <b>ARES Net</b> 8pm 146.620 -100 Hz	16	17 <b>Thurs. Net</b> 8pm 442.750 +123 Hz	18	19
20 <b>Sunday Nets</b>	21	22 <b>ARES Net</b> 8pm 146.620 -100 Hz	23	24 <b>Thurs. Net</b> 8pm 442.750 +123 Hz	25 	26
27 <b>Sunday Nets</b>	28	29 <b>ARES Net</b> 8pm 146.620 -100 Hz	30	31 <b>NEW YEAR'S EVE</b>		

## 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

## December Events

**8th—Club Christmas Dinner**  
**6pm**

Ted's Sports Pub  
770 West St.  
Lapeer, MI 48446

**25th—Christmas**  
**31st—New Year's Eve**

## Winter Spotter Training

From the Fall 2015 SKYWARN Spotter Newsletter

Contributed by Kevin Boxey, KB8TAR

Even though the threat of severe thunderstorms and tornadoes ends during the winter, we still need your spotter reports! Your spotter reports are just as important during the winter season and help us



with warning and advisory decisions for Southeast Michigan. Your reports also help us tell the story of each winter storm or snowfall event. Snowfall and precipitation

type can vary greatly even over small distance within one county.

Those reports are sent out and use by the local and national media. They also appear on our web page and help us draw our snowfall maps.

Below are the dates and locations of upcoming winter spotter classes across Southeast Michigan. The winter spotter class will last roughly an hour and a half. Topics include:

- ★ A review of the brutal 2014-15 winter season
- ★ A look at winter weather climatology
- ★ Examination of winter weather meteorology
- ★ NWS winter forecast products
- ★ Review of guidelines & reporting procedure for winter weather spotters

In some cases, class size is limited. Please **contact the local Emergency Management Office where the training is scheduled to reserve your place.**

We look forward to seeing you at this year's Winter Spotter training class!



Date	Location	Address	Time
Mon, 11/9/15	Bay City	Bay County Community Center 800 John F. Kennedy Dr. Bay City, MI 48706	7:00 PM—8:30 PM
Wed, 12/2/15	Ann Arbor	Washtenaw County Learning Resource Center 4135 Washtenaw Ave Ann Arbor, MI 48105	7:00 PM—8:30 PM
Sat, 12/5/15	Macomb	Macomb ISD 44001 Garfield Clinton Township, MI 48036	10:00 AM—11:30 AM

# Cold Weather Radio Operating

Reprinted with Permission from KB9VBR  
Originally published January 2014



This past week the Polar Vortex gripped the Upper Midwest with bone chilling temperatures and even worse wind chills. You'd think I would be used to cold like this, being an almost life resident of the State of Wisconsin (I'll admit I lived in Minnesota a few years). So what makes this week any different than any other Wisconsin weather. Other than the hype the media created, nothing really. Yes, it gets cold in the winter, and if we want to enjoy the outdoors in the winter time, we need to prepare for cold weather.

Our amateur radio club does a few cold weather activities, providing health and welfare support for an area cross country ski race and participating in a holiday parade. The temperature and conditions could be a balmy 20 degrees, or 5 below zero and windy. Either way, we still need to be out there, because unless there is a lack of snow, the race will go on. With that in mind, here are my tips

for dressing and operating your radio equipment in cold weather conditions.

## Dress for activity level and conditions

The key for being comfortable out in the cold is to know the weather conditions and dress appropriately. If you will be moving around and active, lighter layers may be necessary. If you are going to be relatively sedentary, you'll want more and heavier layers. I prefer to have a system of several light layers built up that

can be zipped and unzipped to moderate your core temperature. Utilize a three layer system and make adjustments with thickness based on conditions:

### Base Layer

The base layer sits closest to your body, use light to mid weight material that will wick moisture and create an insulation layer. The base should be close fitting, but not restrictive. Use wool or synthetics, remember the phrase 'cotton kills.' Any perspiration from activity needs to be transported



material that will wick moisture and create an insulation layer. The base should be close fitting, but not restrictive. Use wool or synthetics, remember the phrase 'cotton kills.' Any perspiration from activity needs to be transported



## **Cold Weather Radio Operating, continued...**

away from your body core, otherwise it will chill you, no matter how warmly you are dressed.

### **Mid Layer**

The mid layer is usually a synthetic or wool material that can be opened or closed to regulate body temperature. I like to use a fleece jacket or vest with a zipper as my mid layer.

### **Outer Layer**

The outer layer should be insulating and wind proof. A parka or heavy jacket are ideal. If you are going to be active, stay with a lighter outer layer and build up the inner layers. If you are going to be in the snow, the outer layer should also be water resistant. snow pants and bibs will keep your bottom half warm. Some people swear by their Carharts, and the heavy quilted outerwear will keep you warm. Just remember the layers underneath also need to be wicking to keep moisture from chilling you.

### **Boots, Hats, Gloves and Mittens**

Protect your extremities in the cold. Wear a hat and gloves or mittens that are appropriate for the conditions. If it's sub-zero, I'll use a fur lined hap with flaps that cover my cheeks and chin. Otherwise a good stocking cap will do wonders at keeping you warm. Chemical hand warmers in your gloves and boots will help keep your extremities warm. As for your feet, a good set of boots with removable wool liners is vital. They should be sized so that you can wear a heavy pair of wool socks along with them. Remember no cotton, and that includes cotton socks. Synthetics and wool

are your friends in the cold outdoors. If it is bitter cold, a face mask or balaclava is a good idea. I'm not a big fan of scarves, as breath moisture tends to condense and freeze on



*Activity level dictates how warm we need to dress. These skiers, as long as they are moving, will stay warm with their thin, moisture wicking layers. I was wearing a heavy jacket, snow pants, and boots while standing out in the woods watching them.*

them, making breathing difficult.

If you'll be standing for long periods of time outdoors, bring along a piece of carpet or foam rubber to stand or sit on. This small layer of insulation on the ground does wonders at helping you stay warm.

### **Protecting your equipment**

Cold weather can sap the life out of your battery operated radio equipment. The newer generation lithium-ion and Nickel Metal-Oxide batteries have better cold weather tolerance than the older Ni-Cad cells. But as the temperature dips below zero, you can expect a reduces battery life. I always keep a spare battery warm in an interior pocket of my jacket.

Clip your radio to an inner layer of your clothing and run a speaker mic and earpiece to your face. A speaker mic with a large button is

### Cold Weather Radio Operating, continued...

often easier to operate than fumbling around with your radio while wearing gloves. This is especially true if you have to unzip your jacket every time you need to transmit. Keeping your radio close to your body will reduce your range, so if you are in a low coverage area or need to be able to hit an area repeater, consider wearing a

radio **chest harness.**

These can be strapped outside your mid layer and still keep your radios and antenna away from your body for better coverage.



I like to keep my radio in the outer pocket of my parka. But this exposes the radio to the cold weather, so I'll put a **chemical hand warmer** in the pocket against the battery. This keeps the radio warm enough to operate all day without a problem. Of course my spare battery is inside my coat for protection.

One event our amateur radio club annually participates in is a state-wide cross country ski competition. The weather conditions have varied from very mild to bitter cold. So for events like this how do I keep track of the multiple races and skiers that pass my checkpoint? I use a 3x5 index card rubberbanded to my jacket sleeve. This along with a

pencil can be used with gloves one to jot notes heard over the air and while skiers are racing past my position. A pencil is vital, as pens will freeze up in the cold weather.

One last thing to consider is when you come back inside to warm up. Moisture may condense on your frigid radio equipment when you come inside. Especially if you are entering a warm and humid room like a warming chalet. Keep a plastic bag in your pocket to place your cold equipment in. The moisture will condense on the bag and not your radio as it warms up.

### Know the signs of distress

Frostbite and hypothermia are two things to be very concerned about while enjoying the cold weather. Know the signs of these conditions and watch out for others that could be suffering from them.

From the [Sierra Trading Post Winter Dressing Guide](#):

### Hypothermia

Hypothermia is when a person's core body temperature becomes abnormally low. Believe





### **Cold Weather Radio Operating, continued...**

it or not, many people get hypothermia at temperatures above the freezing point. When a person gets too cold, common symptoms include excessive shivering, exhaustion, confusion/memory loss, fumbling hands, and slurred speech.

Quick ways to raise your core temp in the field:

- ★ Find shelter.
- ★ Remove any wet clothing.
- ★ Warm the center of the body first—torso, neck, head, and groin. Use skin-to-skin contact under loose, dry layers of clothing if no heat source is available.
- ★ Drink heated beverages. DO NOT drink alcohol, as it lowers body temp.

### **Frostbite**

This is when the flesh in your extremities actually freezes. You can have a safe core temperature and still be at risk for frostbite, due to severely cold temps or sub-zero air combined with high wind. Frostbite can lead to permanent damage or amputation. It most often occurs on the face, ears, fingers and toes. Warning signs include white or grayish-yellow skin at the effected area, skin that feels unusually firm or “waxy”, and numbness. Remember: you might be unaware of frostbite because once you have it, the frozen tissues are already numb.

How to deal with frostbite (if medical care is unavailable):

- ★ Leave the cold as soon as possible.
- ★ DO NOT walk on frostbitten feet or

toes unless necessary, as it increases damage.

- ★ Immerse the affected area in warm water or use your own body heat (such as your armpit). DO NOT use hot water.
- ★ DO NOT rub the affected area with snow or massage it – both lead to more damage.
- ★ DO NOT use any hot object for warming. Affected areas will be numb and therefore can easily be burned.
- ★ Bottom line: Exposed skin is far more likely to get frostbitten. In cold weather, cover all exposed skin.

### **There is no such thing as bad weather, only bad clothing**

An old Scouting friend told me that years ago. You can have fun in any type of weather condition with the right clothing. When participating in cold weather activities dress in layers that be adjusted to regulate warmth, protect your equipment from extreme cold, and watch yourself and others for the signs of frostbite and hypothermia.

#### **About Michael Martens**

A licensed amateur radio operator since 1999 and earning his Extra Class license in 2002, Michael is the Owner of KB9VBR antennas and regularly writes his blog on antennas, emergency communication, amateur radio technology, and operating. Want to learn more? Read his about page at

<http://www.jpole-antenna.com/about-2/>

Reprinted with permission. Find the original article and link to a related [video](http://www.jpole-antenna.com/2014/01/09/cold-weather-radio-operating/) at <http://www.jpole-antenna.com/2014/01/09/cold-weather-radio-operating/>



## Portable Project from the Birch Run Preparedness Expo

Contributed by Kevin Boxey, KB8TAR

Here is a project from the preparedness fair in Birch Run that is interesting. Yes those are headlights on the front of the cart.

At the top of the antenna mast is a dual band VHF / UHF J-pole.

*Editor's Note: Mike Dougherty, KD8MMH hails from the Saginaw Valley Amateur Radio Association*



Yes, those are headlights.



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

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### Mount Clemens MI 48043-2217

**Sponsor:** SAROF

**Date:** Nov 07 2015

**Time:** 7:03 PM (Walk-ins allowed)

**Contact:** Clifford W. Ibbs  
(586) 567-0436

**Email:** [ab8xq@arri.net](mailto:ab8xq@arri.net)

**VEC:** [W5YI VEC](#)

**Location:** Mt. Clemens Salvation Army Corps (rear entrance)  
55 Church St  
Mount Clemens MI 48043-2217

### South Lyon MI 48178

**Sponsor:** South Lyon Area ARC

**Date:** Nov 28 2015

**Time:** 9:00 AM (Walk-ins allowed)

**Contact:** Edward W. Roney  
(248) 719-4643

**Email:** [kd8osm@tir.com](mailto:kd8osm@tir.com)

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

**Location:** Witch's Hat Depot  
South Lyon Historical Society  
McHattie Park Walk-Ins Welcome  
200 Dorothy Street  
South Lyon MI 48178

### Port Huron MI 48060-4014

**Sponsor:** Eastern Michigan ARC

**Date:** Nov 14 2015

**Time:** 10:00 AM (No walk-ins)

**Contact:** Martin Smith  
(810) 385-5584

**Email:** [pioneer-2@att.net](mailto:pioneer-2@att.net)

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

**Location:** St Clair County Library  
210 McMorran Blvd  
2nd Floor Meeting Room  
Port Huron MI 48060-4014

### Oak Park MI 48237-2085

**Sponsor:** Hazel Park ARC

**Date:** Dec 01 2015

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

**Contact:** Alvin J. Begel  
(248) 543-2284

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

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

**Location:** Oak Park Community Center  
14300 Oak Park Blvd  
PRE-REGISTRATION URGED  
Oak Park MI 48237-2085

### Flint MI 48507

**Sponsor:** The KT8Q & W8ACW VE Teams

**Date:** Nov 21 2015

**Time:** 9:30 AM (Walk-ins allowed)

**Contact:** Jeffrey R. Pender  
(810) 895-1408

**Email:** [jeff@w8acw.org](mailto: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:** Dec 05 2015

**Time:** 7:30 PM (Walk-ins allowed)

**Contact:** Clifford W. Ibbs  
(586) 567-0436

**Email:** [ab8xq@arri.net](mailto:ab8xq@arri.net)

**VEC:** [W5YI VEC](#)

**Location:** Mt. Clemens Salvation Army Corps (rear entrance)  
55 Church St  
Mount Clemens MI 48043-2217

## Upcoming Hamfests and Swaps

### LCARC Amateur Radio Swap/Hamfest

**Start Date:** 12/06/2015

**End Date:** 12/06/2015

**Location:** L'Anse Creuse High School

38495 L'Anse Creuse Street

Harrison Township, MI 48045

**Website:** <http://www.n8lc.org>

**Sponsor:** L'Anse Creuse Amateur Radio Club

**Type:** ARRL Hamfest

**Talk-In:** 147.08 receive / 147.68 transmit (PL 100)

**Public Contact:** Dale McGorman, K8RO

2855 Norton Lawn Rochester Hills, MI 48307

Phone: 248-852-9130

**Email:** [k8ro@arrl.net](mailto:k8ro@arrl.net)

### Hazel Park W8HP 50th Annual Swap

**Start Date:** 01/24/2016

**End Date:** 01/24/2016

**Location:** UFCW Local 876

876 Horace Drive

Madison Heights, MI 48071

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

**Sponsor:** Hazel Park Amateur Radio Club

**Type:** ARRL Hamfest

**Talk-In:** 146.640 (PL 100)

**Public Contact:** Ken Krause, AD8M

30655 Westwood Drive Madison Heights, MI

48071

Phone: 248-928-4747

**Email:** [ken@mrkrause.com](mailto:ken@mrkrause.com)

### Livonia ARC's 45th Annual Swap & Shop

**Start Date:** 02/21/2016

**End Date:** 02/21/2016

**Location:** Livonia Civic Park Senior Center

15218 Farmington Road

Livonia, MI 48150

**Website:** <http://www.livoniaarc.com/index.php?page=swapshop>

**Sponsor:** Livonia Amateur Radio Club

**Type:** ARRL Hamfest

**Talk-In:** 145.35 (PL 100) or 146.52 Simplex

**Public Contact:** Doris Kelterborn, K8DXJ

PO Box 51532 Livonia, MI 48151

Phone: 734-941-5043

**Email:** [k8uns@arrl.net](mailto:k8uns@arrl.net)



Don't keep it a **SECRET!**

Send your stories and  
photos to the editor for an  
upcoming issue of the  
Waveguide!

[Gerret.Peters@gmail.com](mailto:Gerret.Peters@gmail.com)

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!

[Gerret.Peters@gmail.com](mailto:Gerret.Peters@gmail.com)

***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.*





## Preparedness Product—Pumpalarm.com

Contributed by Kevin Boxey, KB8TAR

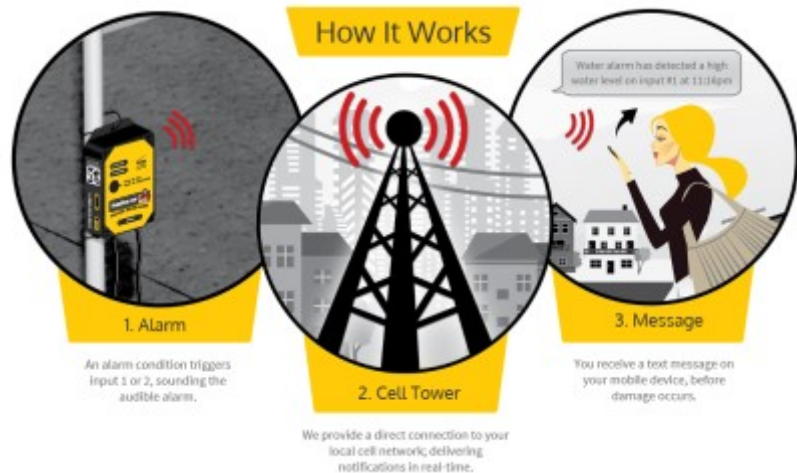
To give you the highlights, this system will send text messages to three devices if your power or sump pump goes out. You can also purchase a “low temperature” sensor to alert you when the temps in your home falls below a certain threshold.

The price range is \$155-\$219, plus an Annual Service Fee of \$49.99

Old Man Winter is just around the corner!

More information at:

<http://www.pumpalarm.com>



## 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