

Waveguide

Lapeer County Amateur Radio Association

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

Club Founder: Hollis Hayes W8ACD, SK

The President Says

Greetings LCARA Members,

Last month I ended one paragraph with this- *I'm hoping that when you look back over 2016 you'll be able to say- "man that was a good year. I had a lot of fun with my hobby."* And I do hope you have a lot of fun with ham radio this year but I'm writing this on January 24th, the third day of a huge snow storm covering much of the East side of our country. Thankfully it hasn't hit us here in Michigan. With news images of people stranded in vehicles, emergency vehicles stuck and some large areas without power, it is a stark reminder that we are all vulnerable to the whims of nature and should do whatever we can to prep for winter travel. Here's a link to a basic list of things to do. <http://www.wikihow.com/Prepare-for-a-Winter-Road-Trip>

Number 14 is about communications and makes a good point that we should all have cell phone chargers in our vehicles.



February 2016

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W8LAP / r Repeaters

146.620 - 100 Hz
442.750 + 123 Hz

Next Club Meeting

Tuesday, March 08
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...

But not every place has good cell phone coverage and I recall that during power outages last winter my typical 4 to 5 bar signal strength was down to 0 to 1 for much of the time. As amateur radio operators we have a wide range of communications options available to us. It's a good time to check that our mobile gear is up and running.

It's also a great time to get involved with ARES training. We had our first meeting on January 20th. Kevin is doing a great job of preparing material and training for us. We're going to build a team this year. It will take dedication and work on each ARES member's part. I hope each one who can will join up and become part of the team. And who knows, we may have the blessing of helping a person in distress and maybe even saving a life.

A little business- by now each member has had the proposed LCARA Constitutional 'Or' signatory amendment letter either delivered by mail or by hand. **Please take the time to read it over and vote.** You can bring it to the February or March meeting. Or you can send it to me at 1651 Castle Rd, North Branch, MI, 48461. We need to have all the votes back in by March 8th. If you need a new copy of the letter just drop me an email at kd8txw@gmail.com.

As a further explanation of what prompted the call for this amendment, when we made the transition of officers last October the change of back up signatory was a bit clunky. The Executive Committee felt that it would be good to have this included specifically in our constitution. It doesn't change anything now since we've gone through the process and are all set. But the next time it should make the transition smoother.

I hope to see you all at our next meeting on February 9th. We'll have a guest and the presentation will be right at the beginning of the meeting.

73 and be safe out there,

Gordon Miller, KD8TXW

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

View from the Veep Seats

2016 is just rolling right along. Here we are in February already, and we seem to have missed the worst of winter so far. I'll probably regret writing that. January had some good Amateur Radio moments, I'm happy to report. Two out of the three J-Poles that Daniel, KE8CFI and I have been working on are complete, and one is installed on the roof, replacing the 1/4 wave ground plane whose TX had gone significantly downhill. (Once we got it down, I could see why—but that's a whole different article!) Kevin, KB8TAR loaned us a little SWR meter and the new J-Pole is reading just about 1.5, so I'm pretty satisfied. The third antenna will be a "collapsible", and has a threaded fitting to allow for easier transport. If all goes well, I'll bring that to the club March meeting as a project to share.



Three J-Poles under construction out in the barn.

ARES started this past month, and I've been digging into the reading list for the homework. It's fairly interesting material, and the general organization of the programs (ARES, RACES, ARRL, NTS, MARS, NWS, FEMA, etc.) is at least a little clearer. As others have noted, consider joining the ARES team—it's the public service aspect of the hobby, and helping people in need has a reward that can't be measured in watts, ohms, or volts.

In the "failed experiment" camp, we set up KE8CFI's TYT-9800 on a 7ah battery at a friend's house in Davison and tried to hit the repeater for the Thursday night net. The antenna (that other J-Pole) was just on the front porch, so it may need more elevation. Although we could hear the net, we couldn't hit the repeater with 40 watts (probably didn't help that the first two times we tried the microphone was locked, ha!)

Gerret, KD8YUK

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

The Treasurer Says

Greetings to everyone,

This sure is a funny year. I did what every red blooded ham should do once in a while: I went out and repaired my dipole antenna during a snow storm. Oh that's a lie, I waited until after the snow stopped. Got the job done though and the antenna worked fine. Once everything was completed satisfactorily I went in and took a much deserved nap.

I have been doing some scouting around as of late to find an appropriate place to put the club savings that will get us some interest for what we have. Last year our CD at the local Credit Union paid us a whopping \$11.49; that is for the year total. I am finding some long term CD's that are paying .6 percent for a five year investment and that seems to be the best I can find. I have one lead from Huntington bank that might pay more, I just have to make them understand that the fund must be safe and guaranteed. Still working on it. In the mean time the money is in a savings account.

As to our everyday financials the only thing new or out of the ordinary was a bill from the old company that hosted W8LAP.com. There was a compromise made as to how much was owed and a settlement for \$9.95. All is good. Thank you Gerret Peters for setting us up with a better deal. Since we no longer have to pay for a telephone line to the repeater shack, our funding is very stable, the only regular bill we have is for the electricity to run the repeater. I think all is very good.

I want to wish everyone a very Happy New Year and many more.

Respectfully,

William Miller KD8VP

Club Meetings

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

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

2332 West Genesee Street

Lapeer, MI 48446

All are welcome.

The Waveguide

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

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

Feedback positive and constructive can also be directed to KD8YUK@KD8YUK.ORG

The Secretary Says

Lapeer County Amateur Radio Association

Meeting Minutes for January 12, 2016

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

Hospital Report

- Bruce Johnson N8EXN a former member passed away
- Hollis Hayes Jr. (son of our club's founder) passed away
- Stephen Stahl KE8BGK is recovering after surgery
- Ed Oyster's wife is recovering from a hip replacement

Vice President Report

Gerret KD8YUK is sending the Waveguide to a large list of recipients. If you are not receiving your Waveguide link, please contact Gerret. Only two recipients "opted out" of receiving the Waveguide.

Gerret is still looking for older copies of the Waveguide. If you have some, please contact Gerret and he will gently scan them for our on-line archives. Ed W8NCJ reported an issue printing the Waveguide and several hints were suggested.

Secretary's Report

November's meeting minutes as reported in the January Waveguide were accepted without changes with a unanimous vote by the membership present.

Treasure's Report

The CD matured and Bill KD8VP has found an account that pays better interest rate than what was previously being earned. The financial report was presented and approved unanimously by the membership present.

Trustee Report

No repeater issues to report. Mike KN8Z would like to nominate our newly reformatted Waveguide Newsletter (created

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.

by Gerret KD8YUK) for consideration of “Best Newsletter” for Amateur Radio. We will watch for the newsletter award submission announcement.

President Gordon KD8TXW requested an exercise to review our repeater equipment requirements and determine a priority plan should we experience a failure of our repeater system.

EOC Report

Kevin KB8TAR reports the survey he completed to add extra coaxial cables to make our EOC operating position capable on HF was in the \$1000 range with a big part of it due to electrician costs to pull the cables through the existing conduits. A secondary plan is being developed using diplexer technology at the tower base to our existing 2 meter and 440 antennas. We can trench our own cables to the fence line once we finalize our diplexer plan.

Old Business

Mark, KE8BYG donated some light bulbs to keep our repeater heaters functioning. Thank You Mark.

New Business

President Gordon KD8TXW proposed an amendment to the Lapeer Amateur Radio Association Constitution. The purpose of the amendment is to clarify our existing policy of having a second signatory to access the association’s money should our treasurer become incapacitated. The proposal officially adds this responsibility to the office of the president. Our constitution dictates all current members of the Lapeer County Amateur Radio Association receive in person or by mail, a ballot with the proposal. Please vote on this proposal and return it. It takes 2/3 of the membership to pass an amendment.

Presentation

An amateur Radio operation from Montserrat by VP2MLJ and an Island tour showing the devastation of the Soufriere Volcano.

50/50 won by Jim KD8ZXV

Respectfully Submitted

Lee, N8LJ

The Trustee Says

Hello W8LAP Supporters,

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

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

This month's Links

Instructional Videos

One can spend endless hours on YouTube, viewing endless subjects. Some of the productions are very good, but many are ho-hum, at best. When discovering the better productions, one must make further decisions about whether the videos contain accurate and/or useful information. After that, it's a matter of drilling through the masses to determine which to watch.

Of the YouTube videos about Ham Radio, I have two favorite sources. One is Cliff, N4CCB, and the other is Randy, K7AGE.

Cliff, N4CCB is the newcomer to the video world, and his YouTube page is titled QRP School. Don't let the QRP in the title throw you off, because Cliff has plenty of basic information about many aspects of Hamming. In particular, many of Cliff's videos focus on portable operating. For instance, he has several videos that illustrate a variety of portable antennas, with very good tips on preparing the hardware. Other subjects in Cliff's repertoire include Solar Power for Hams, Portable Digital for Hams, and tips for taking Ham Radio on vacation. These videos are well edited, and that sets them far above the run-of-the-mill crowd.

Randy, K7AGE is the old hand in Ham related YouTube videos, with well over 100 posts. These range through almost the entirety of hamming. Two Meter Operating, Setting Up a Shack, Remote Control Operating, Digital and Satellite Modes, and Moon-bounce are just starters for Randy. His videos are also very well edited, and a pleasure to watch

So, if you want to expand your knowledge of Ham Radio, videos

Trustee Links

QRP School:

<https://www.youtube.com/channel/UCEINpp-MdTOP8apApXXhZLCQ/>

Randy, K7AGE:

<https://www.youtube.com/user/K7AGE>

The Trustee Says, continued...

by either Cliff or Randy are a good place to start, without having to sift through dozens of mediocre productions.

If you haven't attended our recent club meetings, you're missing some real-time opportunities to expand your horizons. Gerret has included a calendar of upcoming club presentations. You will not waste your time by attending at least a few.

See you at the next meeting,

Mike, KN8Z (kn8z at arrl.net)

Have some old Waveguide Issues?

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

FEB. PRESENTATION

Dave Pridemore, WJ8R activated Brockway Mountain in Michigan's Upper Peninsula for Summits on the Air (SOTA).

Lapeer County EC/RO Report

LAPEER COUNTY ARES

JANUARY MEETING MINUTES: JAN 2016

ATTENDANCE

o KB8TAR, N8OSL, KC8PMW, N8LJ, KB8YGA, KC8VHA, KD8LVK, KD8YUK, KD8TXW

TOPICS COVERED

- ★ ARES, RACES, DISTRICT 3, ARPSC, NWS – MICON, AEC POSITIONS
- ★ PLAN FOR THE TEAM STRUCTURE
- ★ ARES SIGNUP AT END OF THE NIGHT

ARES MEMBERS TO-DO ACTIONS

- ★ BEGIN WORKING ON THE STUDY LIST PASSED OUT AT THE MEETING
- ★ INSTALL FLDIGI, FLWRAP, AND FLMSG ON YOUR PC

FEBRUARY TRAINING TOPICS

- ★ GOOD COMMUNICATION SKILLS
- ★ ARRL RADIOGRAM FORM STRUCTURE
- ★ SENDING ARRL RADIOGRAM MESSAGE BY PHONE

MARCH TRAINING TOPICS

- ★ SENDING ARRL RADIOGRAM BY PHONE PRACTICE
- ★ FLDIGI – FLMSG, BASIC OPERATION
- ★ DISCUSS EXERCISES BEFORE LAPEER COUNTY SET IN APRIL



ARES Training Program

February Meeting

Feb 17, 2016, 7:00 PM

Lapeer EOC

2332 W. Genesee Street

Lapeer, MI

(Same place as club meetings)

Tips for Beginning Net Control Operators

Reprinted with permission from the ARES January 20, 2016 E-Letter

Here in northwest Ohio, we have acquired many new hams and encourage them to operate as net control station (NCS) for various routine nets to gain them experience, providing us with a pool of competent net controllers in the event of an emergency/disaster.

Here are some of the basic tips we convey to our novice net control stations for a smoothly running net:

- Get a glass of water or something to drink.
- Make yourself comfortable. Sit in a good location with plenty of room on a desk or table to write.
- Have a good writing instrument and a back-up along with an extra piece of paper in case you need to jot down notes.
- Take your time; go at your own pace. Remember, you are in control of the net and the frequency.
- Don't worry about making mistakes; there are no mistakes to be made.
- To handle the crowd that is trying to check in, you will develop your own way.
- Stop stations from checking in ("Let's hold it for a minute") until you are caught up.



- Weak stations and stations who give their call signs too fast, are always a problem -- skip them at first. Go back later for repeats.

- Write your log as you see fit. You are the one that has to read it.
- Headphones are a good idea -- they help you focus on what you are hearing and help keep you from getting distracted.

As I mentioned before, there are no mistakes, only experience. When you've finished the net that is what you will have.

-- Steve Bellner, W8TER
Maumee, Ohio

Upcoming Presentations

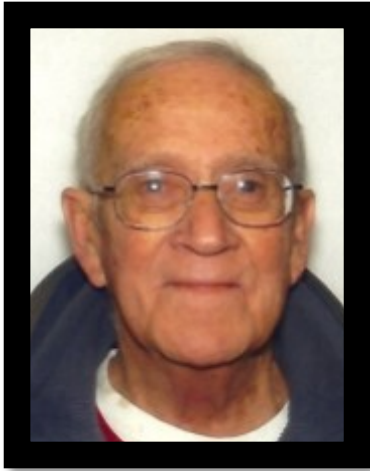
March 2016

Several members of the LCARA club will present recent projects in a show & tell format. Don't miss this chance to get your hands-on questions answered about different aspects of the hobby!

April 2016

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

Image Credit: CafePress.com



N8EXN, Silent Key

It is with great sadness that the Waveguide forwards this news. As many of you know, Bruce was a long-time member of the Lapeer County Amateur Radio Association. -Ed.

Bruce A. Johnson, age 80 of Lapeer, passed

away in the comforts of his home and with his family by his side on January 2, 2016. He was born in St. Paul, Minnesota on March 12, 1935, the only child to Eileen and Edwin Johnson. Bruce was a graduate of Muskegon High School, Class of 1952. He joined the United States Army immediately after and loyally served his country in the 293 Rd Quarter Masters Grave Registration Company during the Korean War. After the Army, he moved to Lapeer and worked... for Michigan Bell / ATT for 33 years. After retirement, Bruce worked for McLaren in Lapeer as a Nurses Aid for 5 years and served as a volunteer for several years following. **Bruce was also a Ham Radio operator for many years. He was known in that community as N8EXN.**

Bruce held several office positions within the local Lapeer VFW and was also a member of the Lapeer American Legion, The Forty & Eight and the Lapidary Club of Lapeer.

He enjoyed playing fast pitch softball on the MI Bell team but most of all it was his hobby of making beautiful stained glass that he was most known for. Bruce made

hundreds of intricate pieces of stained glass, most of which he gave to family and friends as gifts.

Bruce is survived by his wife of 58 years, Alice Johnson; daughters Constance (Jim) Lamb & Susan (Tom) Jensen; daughter-in-law Linda Johnson. Also several loving grandchildren and great grandchildren.

He was preceded in death by his son Clifford Johnson in 2015.

“This is N8EXN signing off.”

A private memorial service will be scheduled at a later date. In lieu of flowers memorial donations to McLaren Cancer Institute (1295 Barry Dr. Lapeer, MI 48446) are greatly appreciated. Arrangements for cremation entrusted to Lynch & Sons Funeral Directors - Capstick Chapel.

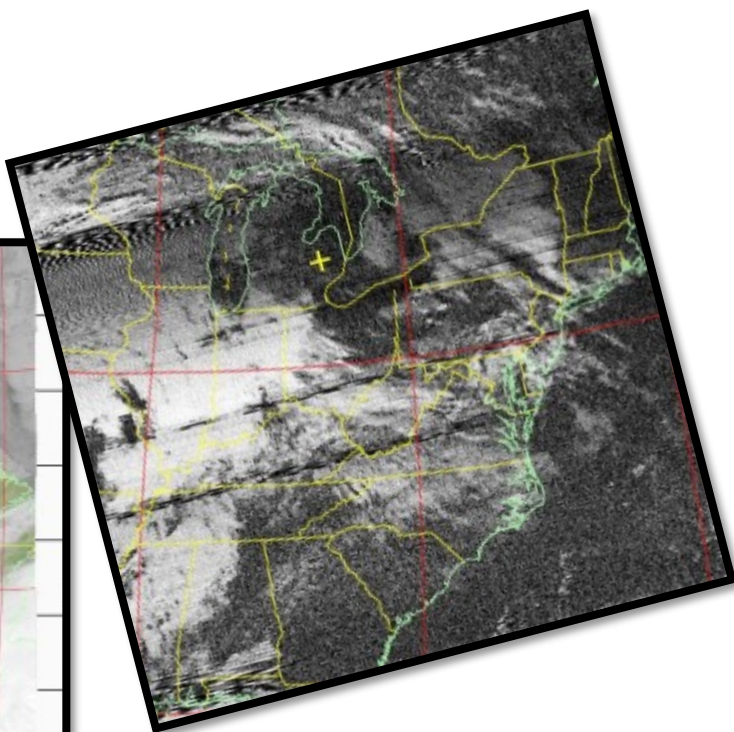
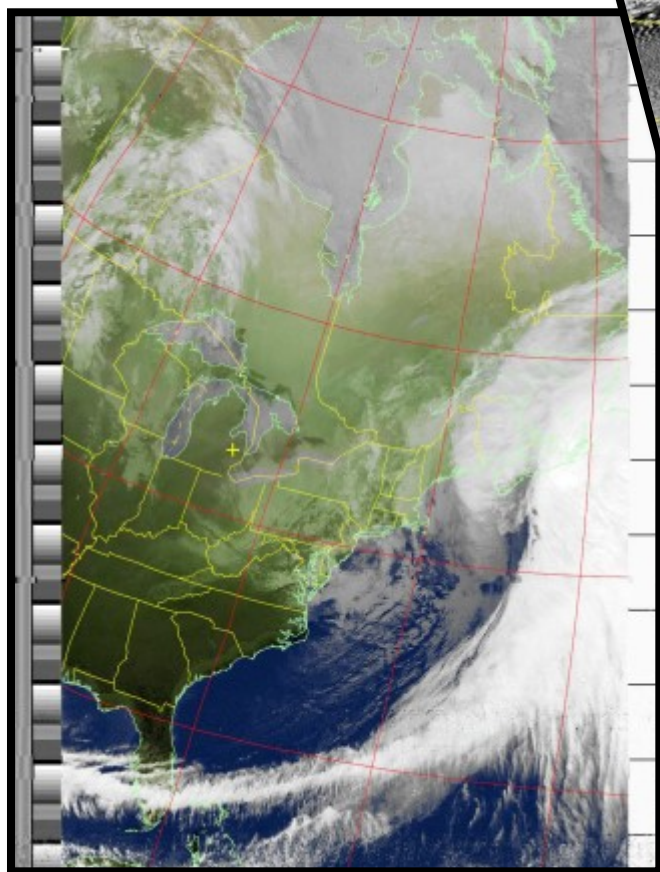
Source: Lynch Family Funeral Directors

<http://www.lynchfamilyfuneraldirectors.com>



Name That Image!




Contributed by Mike Bowman, KD8OTZ



Mike sent these images along via email, and he acquired them through amateur radio means.

Can you tell how they were created, and what the source is?

FEBRUARY 2016

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

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

February Events

13—Cherryland ARC 43rd Swap & Shop, Traverse City MI (See p.16 for details)

14—Valentine's Day

15—Presidents' Day

17—ARES Training

21—Livonia ARC 45th Swap & Shop, Livonia MI (See p.13 for details)

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
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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

3/8—Club Meeting, 7:30pm
3/16—ARES Meeting, 7:00pm
3/17—St. Patrick's Day

Livonia Amateur Radio Club

Talk-in
145.35 with 100 PL
or 146.52 Simplex

45th

GREAT
VENDOR
ACCESS

ANNUAL

SWAP-N-SHOP

Buy and Sell Amateur Radio
Gear, Computers, or
Electronic Test Equipment

Civic Park Senior Center
15218 Farmington Rd.
Livonia, MI

(SE corner of Farmington
Rd. and 5 Mile Rd.)



Livonia ARC

P.O. Box 51532

Livonia, MI 48151-0532

Now take care of EVERYTHING

via the LARC Online Store!! (pay pal)

<http://www.livoniaarc.com/larcstore>

Call (734) 941-5043

or e-mail us at k8uns@arrl.net



*Lots of Tables
(8' tables for \$16 each
or \$17 pay pal
if paid in advance or
\$20.00 if available and
paid at the door)

*Door Prizes

*Food Concession

*Tickets \$5.00 or \$6.
pal pal

Sunday, February 21, 2016 8:00am - 12:00pm

Livonia Amateur Radio Club

2016 Swap - N - Shop

Table Reservation Form

The Livonia Amateur Radio Club

P.O. Box 51532, Livonia, MI 48151-5532 - 734-941-5043

K8UNS Repeater 145.350(-) E-mail: k8uns@arrl.net

Circle Desired Number of Advanced Tables

(Included is one paid admission per vendor application)

1 - 8' @ \$16 2 - 16' @ \$32 3 - 24' @ \$48 4 - 32' @ \$64

5 - 40' @ \$80 6 - 48' @ \$96 7 - 56' @ \$112 8 - 64' @ \$128

(Tables are \$17.00 each if paying by pay pal see our website)

(Tables are \$20.00 each if paying at the door and if available)

February 21, 2016, 8am-12pm (set up 6am Sunday)

Livonia Park Seniors Center

15218 Farmington Rd. (SE corner of Farmington Rd. and 5 Mile Rd.)

Livonia, MI

I request the table space circled marked above at the LARC swap: \$ _____

I request ____ advance additional TICKETS @\$5.00 each \$ _____

=====

Enclosed is check for \$ _____, payable to Livonia Amateur Radio Club \$ _____

Name _____ Call Sign _____

Address _____

City _____ State ____ Zip Code _____ Phone _____

Remarks _____ Power (Y/N) _____

Items to be sold _____

SEND SELF-ADDRESSED, STAMPED, BUSINESS SIZE ENVELOPE FOR TICKETS AND CONFIRMATION

Your confirmations will be mailed with your tickets if your reservation is made prior to Feb. 15, 2016

Limited amount of electrical outlets are available in some areas, so bring your own long extension cord. If you requested power...just in case outlet is not near your table(s).

The CUT-OFF DATE for reserved table space by mail will be FEBRUARY 15th, or sooner if sold out. Get your table(s) early! All tables must be pre-paid in advance to expedite.

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

Port Huron MI 48060-4014

Sponsor: Eastern Michigan ARC

Date: Feb 13 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

Flint MI 48507

Sponsor: The KT8Q & W8ACW VE Teams

Date: Feb 20 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

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

Upcoming Hamfests and Swaps

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



Cherryland ARC's 43rd Swap & Shop

Start Date: 02/13/2016

End Date: 02/13/2016

Location: Immaculate Conception Elementary
School

218 Vine Street

Traverse City, MI 49684

Website: <http://cherrylandarc.com>

Sponsor: Cherryland Amateur Radio Club

Type: ARRL Hamfest

Talk-In: 146.86- (PL 114.8)

Public Contact: Joe Novak , W8TVT

201 South Spruce Street Traverse City, MI 49684

Phone: 231-947-8555

Email: jjnovakw8tvt@gmail.com

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

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



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

Please Print

CALL SIGN: _____ NAME: _____

ADDRESS: _____

CITY, STATE, ZIP: _____

TELEPHONE: _____ EMAIL: _____

LICENSE CLASS: _____ A.R.R.L. MEMBER? (YES) (NO)

SKYWARN NO: _____ RACES NO: _____

ARES MEMBER? (YES) (NO)

L.C.A.R.A membership is \$12.00 per year, renewable each year on October 1st. Family Membership \$20.00. Associate Membership \$4.00. If you wish an autodial number for the repeater there is an additional \$3.00 charge. (Financing available)

Lapeer County Amateur

Radio Association

P.O. Box 12

Hadley, MI 48440-0012

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