THE TUNED CIRCUIT

Club Website: http://www.n8lc.org

THE PREZ SEZ

Next Meeting - 7:30 PM **February 4th, 2015** at the Tucker Senior Center (see last page for map and address).

Meeting Program - The program for our February meeting will be as reported on page 2!.

The monthly board meeting will be on Wednesday, February 11th, 2015.

John Slobodnik—N8NXW

Now that the holidays are over, the winter of the new year is upon us. Recently, I was outside mending my longwire Beverage antenna. I keep a spool of #12 AWG THHN on hand for things like this. It is not uncommon this time of year due to the storms. Another bold task I plan to take on is some tower climbing. I am going to put my WIFI access point in a housing and mount it off the side of the tower and run Cat5e down in the shack. The shack is about 300 yards from the house and the WIFI is currently spotty now. The nieces and nephews compete for my time, wanting to watch old cartoons on YouTube. Another task to be done is to run 5e to the PlayStation. Soon I hope to introduce them to kit projects. Despite the winter in our lives, let us not be afraid to take on the bold tasks. Don't forget the Valentine chocolate for the YL's, either.

73
John Slobodnik, N8NXW

FEBRUARY 4TH MEETING PROGRAM

The February program will be our annual "White Elephant" exchange. For those who are not aware of this event, and a reminder for those who forgot what it is:

- Look around your shack for items that still have some use left in them but you just don't need more.
- Wrap the item(s) so they are not recognizable, and bring them to the meeting.
- See me, and I will give you a ticket for each item you place on the "White Elephant" table.
- At the start of the exchange, a ticket will be drawn.
- If your ticket is drawn, you select the next ticket, and then an item from the table.
- After opening the item, the next ticket number is announced.
- That ticket holder now has the option to pick an item off the table, or chose the item the first person selected.
- If he chooses the first person's item, the first person selects and opens another item from the table.
- At any time during the drawing process, the person having the latest ticket number, has the option to select any item already in another person's possession, or one from the table.

See you at the meeting, and we'll all have a great time.

73, Gregg/N8GEO
Program Chairman

Gregg Crump N8GEO

CQ MIQP CQ MIQP   N8LC   MIQP   Michigan QSO Party 2015

The 2015 Michigan QSO Party, sponsored by the Mad River Radio Club, from 1600Z April 18 until 0400Z April 19 [that's basically noon to midnight. Editor]. 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. 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.

Where will the N8LC club operation be this year? Come to the regular L'Anse Creuse meetings and keep reading your *Tuned Circuit* issues to find out. Plan to be part of the annual fun whether at home, as a mobile, or with the N8LC station.

Report of the Secretary

John N8NXW opened the first meeting of the New Year at 7:30pm on January 7, 2015. Intro's were made and we had one visitor, now member, Allen KD8MRM. Minutes were approved with one dissenting vote.

Kathy KC8WNK worked over the numbers and gave us her report. General fund holds $4412.46, Repeater fund still at $172.32 (Let's buy something soon!) and the Yute (youth) forum climbing steadily at $422.68. School rental of $850 is due and all other swap costs have been covered. Treasurer's report was approved.

Doug N8PYN gave the status of the UHF repeater and the time is now set

Mark Castiglione, N8REZ

Jim K8LFE Liaison, Hazel Park swap is this month and he will have tables there.

Ted NW8W reports that we still have members (none are missing...yet) 64 to date, 1 renewal and one new member. Ted will create a roster, (or was it a rooster).

Tech time at MCCC . John talked to the Administration at the college to see about using the lab for a monthly tech session. John volunteered to open the lab and take charge for free. MCCC stated that it **has** to pay the person to open the lab but doesn't want to pay anyone to open the lab. (Got it? I don't!) More info to follow.

Net Points **Gregg N8GEO** gave out two awards. N8REZ and W8VO. The club received 8 new QSL requests, for a total of 1612.

Board meeting at the Double D restaurant at 7:00pm.

New Business,

VE session will be given on February 18, 6-9pm at the Tucker center.

We are looking for a new Swap chairman to take over. No Volunteers as of yet.

John N8NXW proposed having a meal before the meeting, John proposes a pot luck dinner before the meeting. Discussions ensued. Meeting at a restaurant before was mentioned. Traffic before the meeting was discussed. September BBQ was mentioned.

Gregg N8GEO is working on the accommodations for the annual Dayton trip. We don't seem welcome back at the place we were at last year, at least without a significant price increase. Gregg found a place that is 30 minutes south of the old place, and speculated that the drive time will be recouped by shorter wait times at the local eateries. The new place has 7 rooms reserved for us at a price of around $49. Order your advance ticket from Gregg by giving him money next time you see him.

Raffle tickets were pulled. Prizes picked up. Program for tonight was the mini swap.

Motion to adjourn made by Debbie KC8WHN and 2nd by Doug N8PYN.

Respectfully submitted
N8REZ

Membership Report

Our member database remains at 64 members, ten life members are included in this count..

Forty-nine (49) members have already "re upped" for 2015. Do not be among the last to avail yourself of the advantages of LCARC membership! Bring your $20 and a filled out membership app to the meeting on February 4th. Those who have not re-upped after the February meeting will be removed from the mailing list.

It was decided at the September meeting that new members are granted a dues free first year of membership. This is a good incentive for those prospective members who might be 'on the fence.'

Ted MacKinnon, NW8W

Be on the lookout for those who are interested in Amateur Radio, especially young people. Show them what this is all about and stress that this is an activity that can be done at home, and can involve the computers with which they are so familiar.

Also, as announced at the January meeting, it is time for a volunteer to take over this Membership Chairmanship. A description of this function appears below in this issue of *The Tuned Circuit*. Contact me for any other information that you as the volunteer might need.

Ted NW8W
1/21/15

Club Seeks a new Membership Chairperson

During the January 2015 meeting, I mentioned that it is time for someone else to take over the Membership function. In an effort to generate interest in his job, here is what is involved:
1. Record and update individual member records in the MSWorks database.
2. Extract email addresses for members whose dues are current to be used when the *Tuned Circuit* is distributed. Similarly, extract emails addresses for complimentary distributions, and US Mail addresses for members who do not have Email.
3. Provide a brief membership report to be included in issues of The Tuned Circuit.
4. Yearly, issue a summary report or a roster that shows all current LCARC members with teir contact information.

The database that is part of Microsoft Works version 9 is currently used, because it is intuitive and easy to set up and learn, unlike the Access database that is part of MS Office. A CD-ROM of MS Works is available for temporary loan to whoever volunteers so it can be installed on a PC. Of course, if someone wants to use Access or some other application the data can be converted into a format compatible with that tool.

This activity does not take very much time; maybe a half hour each month to send out the Tuned Circuit, and a couple of hours or so through the year to update the membership records when dues are paid or when new members need to be recorded.

Ted, NW8W   1/13/15

"Dayton", the Granddaddy of all Swaps is May 15th to 17th!

The granddaddy of all swaps is coming in May, and it's that time of the year to start planning to attend the Dayton Hamvention. Everyone should start thinking about Dayton. It's the 15th through the 17th of May this year.

This year we will be moving to a different lodging facility. The place that we stayed at last year really raised their prices for that weekend.

So, off to a different place. We will be staying at the Wingate by Windom just north of Cincinnati. It's a nice place but it's going to be a bit of a drive (about 40 minutes). As of right now I have 10 rooms reserved for about $49.00 per night. I know someone that works at the hotel and they are getting us a preferred rate. It's a really nice place. They have a pool, a restaurant, hot tub and free Wi-Fi. It is also very clean. Right now we are locked in at $49 per night for a double queen room or a single king.

Good/bad news. After January's meeting all 10 rooms have been spoken for. Here is the current list of reservations: N8GEO, N8REZ, N8AT, N8HAR, N8PYN, K8EO, W8ROI, KD8LLT, KD8RJN, W8AII.

If you have not reserved a room and you do want a room please get with me at the club meeting or give me a call and let me know what kind of room you need (obviously the quicker the better).
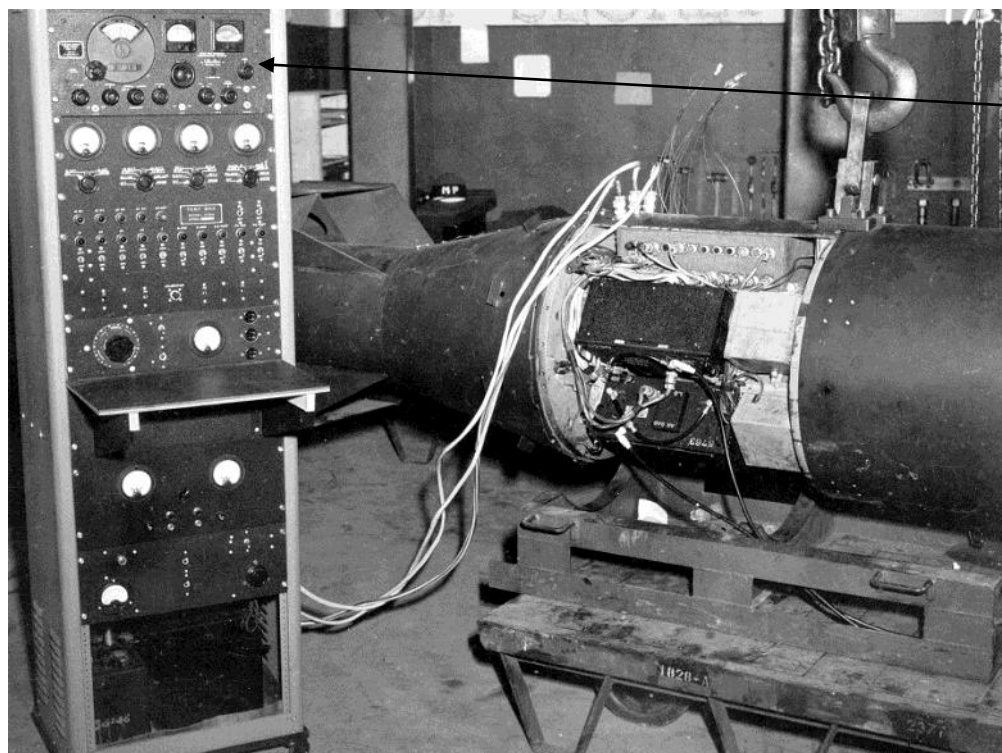
Information about the hotel is here: http://www.wingatehotels.com/hotels/ohio/west-chester/wingate-by-wyndham-cincinnati-west-chester/hotel-overview (or click the Wingate image below).

I will also be pre-purchasing tickets for Dayton this year. Start saving your pennies. I'll be taking your hard earned cash at the February and March meetings. Pre–sales are $20 per person.

See you all at Dayton.

73

Gregg /N8GEO

From Ted / NW8W comes this tidbit showing a Hallicrafters HF radio in a rack of test equipment used to check out a WW II "Little Boy" atomic bomb. This link gives a little look into the other side of the engineering on the first atomic bombs, the mechanical and logistical work that it took to handle, store, transport, and load them. This was accomplished without a single desktop computer, laptop, or electronic calculator. To see a larger image of the photo to the left, click on it (it's a link too!)

With Just a WSPR

By Dan Romanchik, KB6NU

It's really amazing what you can do with computers in amateur radio, and there's been an explosion in the number of digital modes. One interesting mode that I've recently been introduced to is WSPR, which is short for Weak Signal Propagation Reporting. The protocol and the original WSPR program was written by Joe Taylor, K1JT, and is designed for sending and receiving low-power transmissions on the HF bands to test propagation paths.

I won't try to cover all the technical details here. There are several sites that cover them pretty well:
* Wikipedia: WSPR (http://en.wikipedia.org/wiki/WSPR_%28amateur_radio_software%29)
* G4ILO's Shack: WSPT - Distant Whispers (http://www.g4ilo.com/wspr.html)

I was introduced to WSPR by my friend, Joe, AC8ES. He posted a message to our club mailing list asking if anyone had a toroid core that he could buy to make a QRP balun for 10 MHz. When I asked what he was going to use it for, he said that he was making a WSPR transmitter with a Raspberry Pi, and the balun was for the dipole he built for it. He said that he'd gotten roped into doing this because he'd attended a local Raspberry Pi users' group, and when he mentioned he was an amateur radio operator, they encouraged him to try this project.

How could I refuse a request like that? I have a whole kit of ferrite cores, and after some back and forth, we found a small core that he could use.

The software he chose is WsprryPi (https://github.com/JamesP6000/WsprryPi). It's described a "Raspberry Pi transmitter using NTP-based frequency calibration." It uses a GPIO port to generate WSPR signals anywhere from 0 to 250 MHz. Joe said that there are several Raspberry Pi programs that run WSPR, but that he chose this one because it seemed to have more features than the others.

Figure 1 shows Joe's setup. Since the output generates a square wave, a low-pass filter is needed to filter out the high-frequency components. As you can see, the GPIO output is fed through a 0.1uF decoupling capacitor into a Mini-Circuits 10.7MHz low-pass filter, then to a 1:1 balun, which is connected directly to the dipole elements.

Joe says, "The antenna is just a dipole taped up to the walls of my living room and hallway." As you can see he made the balun and dipole from 24 ga speaker wire.

The performance of this setup has been kind of amazing. In one e-mail, Joe reported, "Your toroid seems to be working well. Got the balun and antenna finished and executed seven WSPR transmissions from the Raspberry Pi. The WSPR reporting website WSPRnet (http://wsprnet.org) came back with a couple dozen reception reports; typical distance is ~300+ miles, max was 593 miles." In a second e-mail, Joe writes, "Did a few more beacon transmissions and checked the WSPR signal reports again. Someone picked up my 5 mW signal from 1010 miles away in Canada."

Joe's turned into quite a WSPR fan. He's even written an Android app - WSPRnet Viewer (https://play.google.com/store/apps/details?id=com.glandorf1.joe.wsprnetviewer.app) to retrieve and displays report from www.wsprnet.org. Tapping on a specific report displays more details about it, along with a world map that shows transmitter and receiver locations.

Unfortunately, I don't have a Raspberry Pi, or I'd try this as well. I do have a BeageBone Black, but there doesn't seem to be software that I can download and install as easily as the Raspberry Pi software. That being the case, this might be a good excuse to purchase one of those new, cheaper RPis.

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When he's not digging through his junk box or teaching amateur radio classes, KB6NU writes about amateur radio at KB6NU.Com. He has just released The CW Geek's Guide to Having Fun with Morse Code. The book is available on Amazon.com or on KB6NU.Com.

Figure 1 for the KB8NU column that appears on the previous page. This image can be downloaded by clicking on it.

Letter to the Editor …

(well actually to N8FYL, who submitted a small log for the 2014 Minnesota QSO Party ...)

Hello,

The 17th annual Minnesota QSO Party is coming! Saturday Feb 7th from 1400 - 2400 UTC

Come join the fun even if you are only able to find time to make a few contacts. We anticipate all 87 counties to be activated once again this year.

Be sure to send us your logs and comments as well!

We look forward to having you join us again.

Visit http://www.w0aa.org/ and look for the links for all the details.

73's, Mark - WA0MHJ

Club Volunteers swap duties— If you read page 9 and 10 you may notice that N8GEO and K8RO have exchanged their club support activities. Gregg/N8GEO is now the ARRL Liaison, and Dale/K8RO will take on the QSL management activities formerly done by WA8BIJ.

Livonia
Amateur Radio Club

Talk-in
145.35 with 100 PL
or 146.52 Simplex

44th

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.)

* Lots of tables
(8' Tables are $16
if paid in advance,
$17 online at the LARC store
and $20 the day of
the swap
* Door Prizes
* Food Concessions
* Advance Tickets available
online for $6!

Livonia ARC
PO Box 51532
Livonia, MI 48151-0532
now take care of EVERYTHING
via the LARC Online Store!!
http://www.livoniaarc.com/larcstore

Call (734) 941-5043
or e-mail us at k8uns@arrl.net

Sunday, February 15, 2015 8:00am - 12:00pm

L'Anse Creuse ARC Board Members — 2015

President
John Slobodnik, N8NXW
79165 Omo Rd / PO Box 383
Armada, MI 48005
(586) 337-0045
jrslobodnik@hotmail.com

Treasurer
Cathy Chauvin, KC8WNK
29112 Elmwood St.
St Clair Shores, MI 48082
(586) 775-1891
catwink@ameritech.net

Past President
Rick Vandecar, W8RTV
39816 Elmite
Harrison Twp., MI 48045
(586) 468-0752
w8rtv@wowway.com

VP and President-Elect
Rick Vandecar, W8RTV
39816 Elmite
Harrison Twp., MI 48045
(586) 468-0752
w8rtv@wowway.com

ARRL Liaison
Gregg Crump, N8GEO
29729 South River
Harrison Twp., MI 48045
(586) 477-0364
n8geo@arrl.net

Technical Officer
Doug Chauvin, N8PYN
29112 Elmwood St.
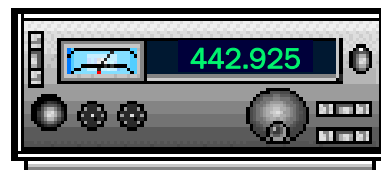St Clair Shores, MI 48082
(586) 775-1891
dougn8pyn@ameritech.net

Secretary
Mark Castiglione N8REZ
28307 Gold Rd
Chesterfield, MI 48047
(586) 822-0051
mscast@att.net

Activities Manager
Gregg Crump, N8GEO
29729 South River
Harrison Twp., MI 48045
(586) 477-0364
n8geo@arrl.net

147.080

LC Echo Repeater
100 HZ PL

442.925

LC Echo 440 Repeater

Board Meeting Time and Location

Board Meetings are regularly held at 7 pm on the Wednesday after the regular membership meeting (except December). The most recent location is The Double D Bar & Grille, 240 N River Road, Mt. Clemens, MI. All club members are welcome to attend and have dinner. Talk-in through the LCARC ECHO 2 Meter repeater (147.080 MHZ, +600 KHZ, 100 Hz PL tone). Should a board meeting have a planned cancellation, this cancellation will be announced in the newsletter.

Club Founder - Art Ellis W8PBO

Club Committee Chairmen

ARRL HF Awards Manager	Tom Mathison	WU8C	Licensing Classes	TBD	
ARRL HF Awards Assistant	Vince Cuker	WA8BIJ	Little Bay Awards	Vince Cuker	WA8BIJ
ARRL VHF/UHF Awards Manager	Allan Koch	KA8JJN	Meeting Refreshments	John	N8NXW
Call Sign ID Tags	Gregg Crump	N8GEO	Membership Chairman TC email distribution	Ted MacKinnon	NW8W
Christmas Party	Keith Harris	W8KD	Net Points Manager	Tom Mathison	WU8C
Club Apparel & Patches	Gregg Crump	N8GEO	Net Points Upgrade Awards	Dale McGorman	K8RO
Club Call Trustee - K8AYZ	Ted Bak	K8EO	TC Postal Distribution	Vince Cuker	WA8BIJ
Club Call Trustee - N8LC	Marty Folz	K8HVI	Outgoing QSL Manager	Dale McGorman	K8RO
Code Proficiency Awards	Vince Cuker	WA8BIJ	QSL Cards	Dale McGorman	K8RO
Dayton Trip	Gregg Crump	N8GEO	Swap Chairman / Swap Tables	TBD	
Door Prizes—Buyer	Doug Chauvin	N8PYN	*Tuned Circuit* Editor	John Huber	N8FYL
Door Prizes—Tickets	Wayne Hearn	WG8U	Volunteer Exams	Cliff Ibbs	AB8XQ
Echo Repeater Trustee	Marty Folz	K8HVI	Webpage (n8lc.org)	Doug Chauvin	N8PYN
Field Day			Webpage Assistant	Marty Folz	K8HVI
Health & Welfare	Dave Herrington	N8NLK	Youth Forum (50/50)	Ralph Irish	W8ROI

The Tuned Circuit

This publication of the L'Anse Creuse Amateur Radio Club is issued for the months of September through June of each year. The *Tuned Circuit* has been formatted to be read easily with any reader programs for our visually impaired readers; however, an audio tape or a larger print version of its contents will be made available, upon request to the editor. We welcome any comments, concerns, corrections, congratulations, or complaints. Please submit such communications to the Editor:

        John H. Huber N8FYL

        Email: n8fyl@arrl.net or editor@n8lc.org

        Phone: (248) 740-2693

Submissions will be accepted in any of the standard PC formats. Microsoft Office 2010 and earlier, Open Office, plain text, rich text, PDFs, and any type of image format. Unfortunately audio files and movies cannot be accepted, as they cannot be reproduced on paper, but links can be reproduced to these types of media if you'd like to provide a link.

Excerpts from the January *Michigan Section News* from the ARRL.

January, 2015

Greetings to the Hams of Michigan:

PRB-1 Update

I have some very exciting news to share with you: Michigan now has a PRB-1 law! On the afternoon of January 15, 2015, Governor Snyder signed Senate Bill 0493 into law. It has been designated as Public Act 556.

Today's actions come as the culmination of 3 years work on behalf of the current PRB-1 team, which consists of Ed Hude, WA8QJE, State Government Liaison; Butch Hedges, KD8NKJ, Local Government Liaison; Hal Thomas, N8HAL, Local Government Liaison; Raoul Revord, W8RDR, Legal Advisor; Jay Nugent, WB8TKL, Webmaster; Pat Mullet, KC8RTW, Public Information Officer; Dale Williams, WA8EFK, Advisor, and Larry Camp, WB8R, Michigan Section Manager.

At this point, I would like to recognize and thank the group of individuals who have worked on this project in the past, going back approximately 10 years, who laid the groundwork for the successful completion of this effort.

I want to thank the hundreds of hams in Michigan who responded to the many calls to action over the past months as our effort gained momentum. The response was nothing short of tremendous. Each time we asked for emails to be sent or phone calls to be made, the response was outstanding. The feedback that we received about the Michigan hams communicating with various state offices was excellent! We received many positive comments about the polite, succinct response of the hams of Michigan.

Hams of Michigan, you have faithfully represented the very best of amateur radio in rising to the occasion for the benefit of your fellow amateurs. You have my sincere appreciation.

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Until next time,

73,

Larry

ARRL Michigan Section
Section Manager: Larry Camp, WB8R
wb8r@arrl.org

Future Programs & Activities

Gregg Crump, N8GEO—Activities Manager

February 4, 2015	White Elephant Exchange
March 4, 2015	"Hair Cells" - Jerry (not W8NPI)
April 1, 2015	TBA—Jerry Begel, W8NPI, No Foolin'
April 18-19, 2015	Michigan QSO Party
May 6, 2015	Field Day Planning
May 15-17, 2015	Dayton Hamvention
June 3, 2015	Regular Meeting—followed by Fox Hunt!
June 28, 2015	ARRL Field Day
September 2, 2015	Regular Meeting
October 7, 2015	Regular Meeting

VE Testing Locations

Ann Arbor (ARROW)): Mark Goodwin, W8FSA, w8fsa@arrl.net, 734-930-6564. Second Saturday of each month.

Hazel Park—Jerry Begel, W9NPI, w9npi@arrl.net 248-543-2284

First Tuesdays of Even Months

Motor City 313-676-6284

USECA http://usecaarc.com/test/

3rd Monday Monthly except during the months of July and August at the Mt. Clemens Elk's Lodge at 7 pm

LCARC
Tucker Senior Center,
Wednesday, February 18, 2015
 Contact Cliff Ibbs ab8xq@arrl.net (586) 567-0436 for details.

Online Practice Exams and Morse Resources

Online Practice Exams

http://www.eham.net/exams

http://www.qrz.com/testing.html

http://www.ah0a.org/AH0A.html

Morse Code

http://www.g4fon.net

http://www.pdarrl.org/k6rau/

http://www.ac6v.com/morseaids.htm

Upcoming Swaps

02/15/2015 | Livonia ARC Swap-N-Shop
Location: Livonia, MI
Type: ARRL Hamfest
Sponsor: Livonia Amateur Radio Club
Website: http://www.livoniaarc.com/index.php?page=swapshop

NOTE! New location for the "Marshall" Swap
03/14/2015 | Michigan Crossroads Hamfest and Radio Swap
Location: Kalamazoo, MI
Type: ARRL Hamfest
Sponsor: Southern Michigan Amateur Radio Society
Website: http://www.w8df.com/hamfest

03/15/2015 | TMRA Hamfest
Location: Perrysburg, OH
Type: ARRL Hamfest
Sponsor: Toledo Mobile Radio Association
Website: http://www.tmrahamradio.org/

04/??11??/2015—There is likely to be a Milford, MI swap but as of 1/28/2015, I could not find any documentation that there is a swap planned this year.

05/02/2015 | Cadillac Hamfest
Location: Cadillac, MI
Type: ARRL Hamfest
Sponsor: Wexaukee Amateur Radio Club
Website: http://www.wexaukeearc.org/

05/15/2015 | Dayton Hamvention
Location: Trotwood, OH
Type:
Sponsor: Dayton Amateur Radio Association
Website: http://www.hamvention.org

06/07/2015 | Chelsea Radio Swap 'n Shop
Location: Chelsea, MI
Type: ARRL Hamfest
Sponsor: Chelsea Amateur Radio Club
Website: http://www.wd8iel.com

06/21/2015 | Monroe Hamfest
Location: Monroe, MI
Type: ARRL Hamfest
Sponsor: Monroe County Radio Communications Association
Website: http://www.mcrca.org

Contest Calendar — from http://hornucopia.com/contestcal/contestcal.html

February 2015

+ North American SSB Sprint Contest	0000Z-0400Z, Feb 1
+ ARS Spartan Sprint	0200Z-0400Z, Feb 3
+ QRP Fox Hunt	0200Z-0330Z, Feb 4
	1300Z-1400Z, Feb 4 and
+ CWops Mini-CWT Test	1900Z-2000Z, Feb 4 and
	0300Z-0400Z, Feb 5
+ QRP Fox Hunt	0200Z-0330Z, Feb 6
+ NCCC Sprint Ladder	0230Z-0300Z, Feb 6
+ Vermont QSO Party	0000Z, Feb 7 to 2400Z, Feb 8
+ YL-ISSB QSO Party, CW	0000Z, Feb 7 to 2359Z, Feb 8
+ 10-10 Int. Winter Contest, SSB	0001Z, Feb 7 to 2359Z, Feb 8
+ Black Sea Cup International	1200Z, Feb 7 to 1159Z, Feb 8
+ Minnesota QSO Party	1400Z-2400Z, Feb 7
+ British Columbia QSO Party	1600Z, Feb 7 to 0400Z, Feb 8
+ AGCW Straight Key Party	1600Z-1900Z, Feb 7
+ Mexico RTTY International Contest	1800Z, Feb 7 to 1759Z, Feb 8
+ AWA Amplitude Modulation QSO Party	2300Z, Feb 7 to 2300Z, Feb 8
+ North American Sprint, CW	0000Z-0400Z, Feb 8
+ Classic Exchange, Phone	1400Z, Feb 8 to 0800Z, Feb 9
+ ARRL School Club Roundup	1300Z, Feb 9 to 2359Z, Feb 13
+ NAQCC CW Sprint	0130Z-0330Z, Feb 11
+ QRP Fox Hunt	0200Z-0330Z, Feb 11
	1300Z-1400Z, Feb 11 and
+ CWops Mini-CWT Test	1900Z-2000Z, Feb 11 and
	0300Z-0400Z, Feb 12
+ QRP Fox Hunt	0200Z-0330Z, Feb 13
+ NCCC Sprint Ladder	0230Z-0300Z, Feb 13
+ CQ WW RTTY WPX Contest	0000Z, Feb 14 to 2400Z, Feb 15
+ SARL Field Day Contest	1000Z, Feb 14 to 1000Z, Feb 15
+ Asia-Pacific Spring Sprint, CW	1100Z-1300Z, Feb 14
+ Dutch PACC Contest	1200Z, Feb 14 to 1200Z, Feb 15
+ New Hampshire QSO Party	1600Z, Feb 14 to 2200Z, Feb 15
+ FISTS Winter Unlimited Sprint	1700Z-2100Z, Feb 14
+ Run for the Bacon QRP Contest	0200Z-0400Z, Feb 16
+ QRP Fox Hunt	0200Z-0330Z, Feb 18
	1300Z-1400Z, Feb 18 and
+ CWops Mini-CWT Test	1900Z-2000Z, Feb 18 and
	0300Z-0400Z, Feb 19
+ AGCW Semi-Automatic Key Evening	1900Z-2030Z, Feb 18
+ QRP Fox Hunt	0200Z-0330Z, Feb 20
+ NCCC Sprint Ladder	0230Z-0300Z, Feb 20
+ ARRL Inter. DX Contest, CW	0000Z, Feb 21 to 2400Z, Feb 22
+ REF Contest, SSB	0600Z, Feb 21 to 1800Z, Feb 22
+ Feld Hell Sprint	2000Z-2159Z, Feb 21
+ High Speed Club CW Contest	0900Z-1700Z, Feb 22
+ QRP Fox Hunt	0200Z-0330Z, Feb 25
	1300Z-1400Z, Feb 25 and
+ CWops Mini-CWT Test	1900Z-2000Z, Feb 25 and
	0300Z-0400Z, Feb 26
+ QRP Fox Hunt	0200Z-0330Z, Feb 27
+ CQ 160-Meter Contest, SSB	2200Z, Feb 27 to 2200Z, Mar 1
+ UBA DX Contest, CW	1300Z, Feb 28 to 1300Z, Mar 1
+ North American QSO Party, RTTY	1800Z, Feb 28 to 0600Z, Mar 1

The DL2NBY Contest Calendar is another calendar source. It includes the ability to add events to your own Google calendar as well as import to Outlook, Thunderbird, and more.

Interesting Web Sites & Miscellany

This space is set aside for those items that do not fall into any particular category. If you have an interesting Web Site or similar information like a Net or SWL frequency, this is the place to spread the word.

W8VO sent your editor the link http://www.americanradiohistory.com/ - Documenting the History of Radio, TV, and FM broadcasting. A plethora of old magazines to view.

WU8C says "Want to print a nice copy of your license"? Check out:
http://www.ae7q.com/misc/Generate.php

Citizen Scientists awaken a NASA spacecraft and try to return it to Earth orbit.
http://spacecollege.org/isee3/

"The Hamband", a music group, is Andrew (G3WZZ / OZ1XJ / OZ5E), his wife Lisa, and a group of Nashville session musicians.
http://www.hamband.com

Diagnose and Repair a Yaesu FT-7800 Ham Radio http://hackaday.com/2013/11/11/diagnose-and-repair-a-yaesu-ft-7800-ham-radio/ (submitted by Matt/KD8LLT 11/13)

Where are all the Hams? Explore hams.mapmash.com to see!

The September issue of *The GRAY LINE REPORT*, the Twin Cities DX Association newsletter, has a couple of great stories you'll enjoy.

Interesting radio related hobby:
http://www.michiganbroadcasttowers.com/ by Tom/K8TB

http://www.michiganbroadcasttowers.com/amateur/RRWeb/K8TBremotebase.html (remote base stuff similar to that used by Tom WU8C) [N8FYL/John 10/13]

Ham and Marine Maritime Mobile HF Net Frequencies [provided by W8ROI/Ralph 05/13]
http://www.mayaparaiso.com/maritime_mobile_frequencies.php

An archive of all of Radio Shack's catalogs, dating back to 1939! Even though they had been around for many years prior to 1939, this was their first catalog. [Provided by W8ROI/Ralph 04/13]
http://www.radioshackcatalogs.com/catalog_directory.html

A very interesting item of new technology to use Bluetooth radio to remotely turn on and off AA battery power supplies:
http://www.indiegogo.com/tethercell

Here's a link provided by Clem / W8VO to photographs of a Pennsylvania clubs January 19th 2013 ARRL VHF contest expedition (02/13):
http://public.fotki.com/wa3usg/hobbies/amateur_radio/the-january-2012-ar/

A fascinating site about the W8JI 160 M contest station and a lot more. Worth you time to check it out. Editor 01/13. http://www.w8ji.com is the main site. Be sure to look at http://www.w8ji.com/contest_station_w8ji.htm too!

A really great weather site, with astronomical data.
http://www.wunderground.com

Amateur Radio News Line http://www.arnewsline.org/

Amateur Radio Detroit AM/FM History

Information on Government and miscellaneous data
http://www.usa.gov/

HDTV info on HDTV stations and locations
http://www.Antennaweb.org

Windows XP Secrets http://www.pchell.com

human 500 database (How to get to a human operator for various companies) http://gethuman.com/us/

iDIN plugs from Universal Radio Inc. http://universal-radio.com/catalog/parts/dinconn.html

SSTV in Windsor and Detroit http://www.kent.net/ve3rdn

S-Meter site for Amateurs http://www.smeter.net/

Ham Movie http://www.youtube.com/watch?v=vBGIdf0VjQ4

73s.org—Social Networking for Hams http://www.73s.org

Grid Square locator
http://f6fvy.free.fr/qthLocator/fullScreen.php

Useful Telephone Numbers
AT&T DSL Maintenance - (866) 583-2494
DTE Customer Satisfaction Technician - (586) 412-3013

L'Anse Creuse Amateur Radio Club Nets

Day	Time		Band	Mode	Frequency	Net Control	Calendar
	UTC	EST					
Monday	0030	1930	15 M	CW	21.165 MHz	Vince, WA8BIJ	Every Monday
Monday	0130	2030	15 M	SSB	21.395 MHz	Clem, W8VO	Every Monday
Monday	0200	2100	6 M	SSB	50.160 MHz	Gregg, N8GEO	Every Monday
Tuesday	0100	2000	2 M	Packet	144.93 MHz	Vince, WA8BIJ	Every Tuesday (Connect to detqso)
Thursday	0030	1930	10 M	SSB	28.435 MHz	Wayne WG8U	Every Thursday
Thursday	0130	2030	2 M	FM	147.08+ MHz	Clem, W8VO	1st Thursday
						Wayne, WG8U	2nd Thursday
						Gregg, N8GEO	3rd Thursday
						Rose, K8VFR	4th Thursday
						Vince, WA8BIJ	5th Thursday

Membership Request

Date: ____/____/_____

Request For:

__ $20.00 LCARC Individual Membership
　　　Are you a New Member? (Y / N)

__ $30.00 LCARC Family Membership

__ $10.00 Print and Mail me *The Tuned Circuit* via US Mail

__ $2.00 LCARC Student Membership (Under 18 years of age)

__ $3.00 Club Badge created with my Name and Call sign

__ Please update my membership information because it has changed.

L'Anse Creuse Amateur Radio Club
Cathy Chauvin, KC8WNK
29112 Elmwood St.
St. Clair Shores, MI 48082-1616

Only membership applications to go this address, all other mail should go to the club's main PO Box. Make sure you use the full 9 digit zip code when mailing in your application.

Note: LCARC dues are from Nov 1st to Oct 31st
Class License (Circle One)
　Novice　Technician　Tech+
　General　Advanced　Extra

I am ARRL Member:? (Y / N)

Treasurers Box
Date Paid: _____
Amount:_____
Initials: _____

Call sign:_____ Old Call Sign:_____ Street:_____
Name:_____ City:_____ State:_____
Spouse:_____ Zip: _____-_____
Phone: (_____) _____ - _____ Email Address:_____
(Please indicate your name above even if it hasn't changed, so we know who's giving us money and can mark that you've paid in our records.)

The Tuned Circuit

Monthly Bulletin of the L'Anse Creuse Amateur Radio Club
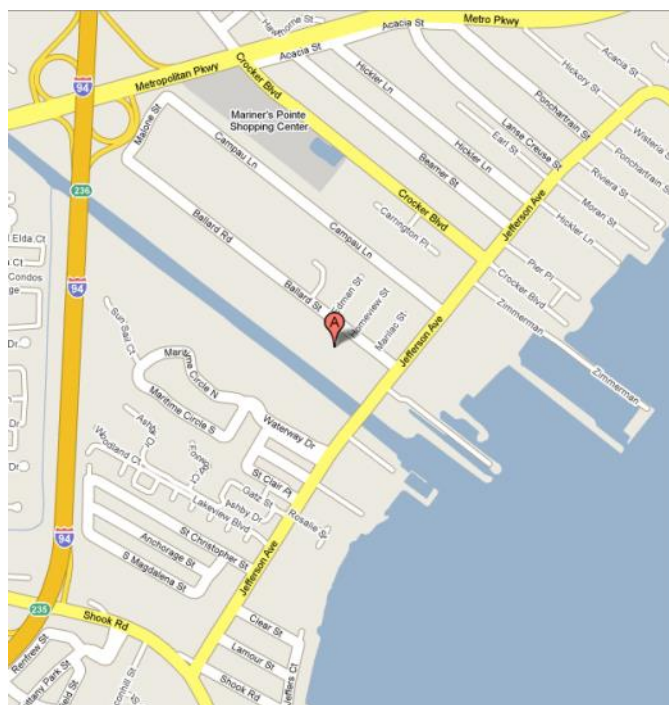
L'Anse Creuse Amateur Radio Club

P.O. Box 180072

Utica, MI 48318

LCARC Web Site

http://www.n8lc.org

E-mail: info@n8lc.org

The L'Anse Creuse Amateur Radio Club meets at 7:30 pm the first Wednesday of each month, except during July and August. Meetings are held at Tucker Senior Center located at 26980 Ballard St, Harrison Township, MI 48045 unless indicated otherwise in the most current issue of the Tuned Circuit. Call-in on the Echo Repeater (N8LC) on 147.08 MHz (+ 600 KHz, 100 Hz PL tone) for any meeting information, or to ask a member for the location of the meeting.