

THE TUNED CIRCUIT

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

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**September TC
Deadline:
Monday
August 23rd**

Next Meeting - 7:00 PM June
2nd 2021 at the Tucker Senior
Center (see last page for map and
address) with Zoom video
conference access.

Meeting Program - The program
for our meeting will be as
reported on [page 5!](#)

The NEXT board meeting will be
on Wednesday, Sept. 8th, 2021 or
as announced, perhaps via e-mail
or the groups.io reflector.

THE EDITOR SEZ

The June 2nd 2021 general membership meeting will again be **IN PERSON** at the Tucker Senior Center. We will again make our meeting accessible via **Zoom video conferencing**.

Free Zoom meetings usually have a 45 minute limit. If the Zoom session does cut off, you should try reconnecting to the same meeting link.

Zoom Invitation Details:

Topic: LCARC May Meeting

Time: June 2, 2021 07:00 PM Eastern Time (US and Canada)

Join Zoom Meeting (by clicking this link)

<https://us04web.zoom.us/j/76045739880?pwd=QlYvbzFpd25QbFJ6ZGJocjINSUVqdz09>

Meeting ID: 760 4573 9880

Passcode: GUAF4R

The June LCARC meeting will be **LIVE** at the Tucker Senior Center and available via **Zoom** video conferencing on Wednesday, June 2nd, 2021 at 7:00 PM.

Report of the Secretary

Submitted by Marty / K8HVI at 03:43 AM 05/25/2021

Meeting Call to Order:

The President, John, N8NXW, called the May 5th, 2021 LCARC general membership meeting to order at 7:03 PM at the Tucker Senior Center where we also had Zoom meeting session setup for those that couldn't come in person.

Roll Call was taken and we had 15 members present.

In person at Tucker Senior Center: John/N8NXW, Dale/K8RO, Marty/K8HVI, Ken/KD8RJN, Fritz/KE8BFW, Ralph/W8ROI, Russ/N8HAR, Joe/no-call, Lito/K8AJJ, Fred/WB8ITB, Keith/W8KD, Gregg/N8GEO, and Dave/N6WY. Via Zoom: Tom/WU8C, John/N8FYL, and Doug/N8PYN.

Visitors: Ed/K9HVI via Zoom from Evansville, Indiana

FCC license upgrades: None

Russ/N8HAR made a motion to approve the prior month's (April 2021) meeting minutes. It was seconded by Dave/N6WY. Motion passed.

Treasurer's Report: by Gregg/N8GEO:

Total amount in the account is	\$6,156.09
The Youth Fund has	\$375.00
The Repeater Fund has	\$1,185.43
The Repeater Project has	\$3,190.96
Total amount available (unallocated) is	\$1,404.70

The total unallocated went up about \$1,000 due to sales of equipment donated by Vince/WA8BIJ. Thanks Vince!! (Round of applause was given).

Keith/W8KD made a motion to approve the Treasurers Report. It was seconded by Ralph/W8ROI. Motion passed.

Where's Doug: by Doug/N8PYN:

John/N8FYL has a good list of upcoming swaps in the club's *Tuned Circuit*. No changes in the club packet station.

Repeater Site Update

Working with the engineering company to do the tower work. Current estimate is that he will come out about the end of June. 440 repeater is still out. WiresX is through Dale/K8RO's house.

ARRL Liaison report: Keith/W8KD

ARRL has been pushing on the RF Exposure evaluations for hams. Exposure limits have not changed. Just that hams now need to make their own assessments. License renewal fees of \$35 from the FCC will start being charged around the Fall 2021.

(Continued on page 3)

(Continued from page 2)

Net Points: John/N8FYL reporting for Clem/W8VO.

Name	Points	Name	Points
Tom WU8C	5,200	Clem W8VO	3,900
Dale K8RO	500	Dave WJ8R	50 with certificate

Membership and Tuned Circuit Report: by John/N8FYL:

71 members, (includes 8 life members). The June *Tuned Circuit* deadline is May 24, 2021.

QSL Report: Dale/K8RO

Old Business:

Gregg/N8GEO said the ARRL thanked us for the donation we made to the ARRL Education and Technology Fund in honor of club founder Art/W8PBO (SK).

Russ/N8HAR reported that our swap is still on track for December. No other news about the swap. He will call the hall coordinator tomorrow for status.

Gregg/N8GEO stated that the club has one additional certified VE, Keith/W8KD. We are still open to more people from the club to become Volunteer Examiners. Next VE Session is June 21, 2021. At 6 pm.

New Business:

John/N8NXW stated that the next board meeting will be next Wednesday (May 12th) at 7:30pm on Zoom. Dale/K8RO will send out the Zoom meeting notice.

We will have door prizes and 50/50 drawing today.

Close Meeting:

Ken/KD8RJN made a motion to close the meeting. It was seconded by Russ/N8HAR. Motion passed Meeting closed at 7:28pm.

Meeting Program:

Via Zoom from Clinton, Utah, "From Sun to Earth: How the Sun Affects Propagation" by Ron Wilcox/KF7ZN.

Board Meeting Minutes

Submitted by Marty, K8HVI at 11:24 AM on 05/25/21

Meeting Call to Order:

The LCARC President (John/N8NXW) called the May 12th, 2021 LCARC board meeting to order at 7:30 PM. Meeting was held via ZOOM.

Present were: John/N8NXW, Marty/K8HVI, Dale/K8RO, Gregg/N8GEO, Scott/W8CQD, Keith/W8KD, Vince/WA8BIJ, Doug/N8PYN, Lito/K8AJJ, Russ/N8HAR.

Dale/K8RO stated that next month's activity will be the Fox Hunt. Doug/N8PYN will be the fox and will place his electronic fox box within a 5 mile radius of the Tucker Senior Center. Gregg/N8GEO will get the reservation at Bentley's for the post hunt food and drinks gathering.

Gregg/N8GEO stated that the club has some people contacting him to come to our club's VE testing. Completed getting the ARRL request for testing materials.

We are all set for the ARRL Field Day at Addison Oaks County Park. It will run pretty much the same as prior years. Everyone is welcome. We will determine what class we will be on Saturday morning based on how many stations get set up.

Russ/N8HAR talked to the hall and they are set to open fully in September. So, we should be all good for the December Swap. We will follow whatever COVID rules they have in place for our event.

Gregg/N8GEO stated he is working with Bob/KA8VSI on updating the Club Tri-Fold flyer to get printed for hand out at swaps. They will send out the updated document to the board members to review.

Gregg/N8GEO stated our radio raffle (IC-7300) is still on hold as the State has not opened up the government department to complete the license for our raffle sponsor, the Knights of Columbus.

Dale/K8RO reminded all that we still need to find a LCARC Program Chairman. This person will find topics and bring in people and presentations for the monthly general membership club meeting.

Dale/K8RO brought up that we need to work on getting an online storage location to consolidate all our club documentation in a centralized location that everyone can access. Marty/K8HVI and Dale will test out some possible solution vendors.

Marty/K8HVI for the repeater work to be done by the engineering company, the current estimate is that they will come out about the end of June. 440 repeater is still out. WiresX is through Dale/K8RO's house.

Meeting adjourned at 8:48pm

JUNE 2ND MEETING IN PERSON!!!

The June membership meeting will be in person with Zoom video conferencing access. See the Zoom details in [The Editor Sez on page 1](#).

Following the (hopefully short) meeting we will conduct our annual Fox Hunt. Doug/N8PYN will be "The Fox" and will be located somewhere within a 5 mile radius of the Tucker Senior Center. Doug's "fox box" will transmit on the selected 2 meter frequency at regular intervals and the hunters will seek the source of the signal. After all the hunters have located the fox, or given up, we will proceed to the post-hunt gathering at [Bentley's Roadhouse on South River Road](#). There we will all relive the good time hunting and enjoy some pizza and beverages. Get your transmitter hunting gear out and tune it up for the event.



Meeting time is 7:00 PM



Membership Report

Our member count remains steady at 71 as we head into our summer break. 60 regular members, 3 "first year free" members, and 8 Life members.

John / N8FYL – 05/25/2021



2021 MIQP June Update

The 2021 Michigan QSO Party log submission deadline has passed. About 26 more logs were submitted since the report in the *May Tuned Circuit*.

As of 5/25/2021 at 17:00 there have been [433 logs submitted](#). Based on claimed scores our two members in "Fixed Single Op High Power" slipped a place. Dale/K8RO is now 13th and Lito/K8AJJ is 21th in the class which now has 105 logs (2 more than last month). John/N8FYL is still 6th in "Fixed Single Op Low Power" class out of 276 logs (up from 258 last month).



The Mad River Radio Club has created a committee for the MIQP to carry on following the loss of previous MIQP chairman Dave Pruett/K8CC, who became a silent key in December 2020. Not only was Dave the MIQP chairman for several years, he is now a member of the [CQ Contest Hall of Fame](#).

73, John / N8FYL

Why are they called DIN plugs?

By John / N8FYL

Have you ever wondered why some of our electronic plugs and jacks are identified as “DIN” connectors? Me too. I recently learned why, and here’s information shamelessly reproduced from [Wikipedia](#).



Logo of the German Institute for Standardization.

Deutsches Institut für Normung e.V. (DIN; in [English](#), the **German Institute for Standardisation**) is the [German](#) national organization for [standardization](#) and is the German [ISO](#) member body. DIN is a German [Registered Association](#) (e.V.) headquartered in [Berlin](#). There are currently around thirty thousand DIN [Standards](#), covering nearly every field of technology.

History

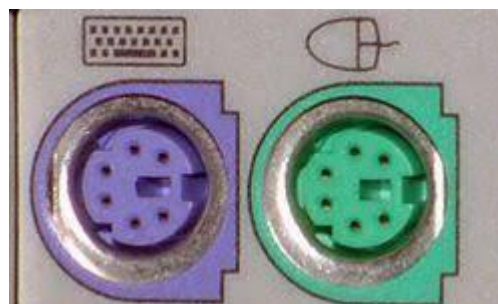
Founded in 1917 as the *Normenausschuß der deutschen Industrie* (NADI, "Standardization Committee of German Industry"), the NADI was renamed *Deutscher Normenausschuß* (DNA, "German Standardization Committee") in 1926 to reflect that the organization now dealt with standardization issues in many fields; viz., not just for industrial products. In 1975 it was renamed again to *Deutsches Institut für Normung*, or 'DIN' and is recognized by the German government as the official national-standards body, representing German interests at the international and [European](#) levels.

The [acronym](#), 'DIN' is often incorrectly expanded as *Deutsche Industrienorm* ("German Industry Standard"). This is largely due to the historic origin of the DIN as "NADI". The NADI indeed published their standards as *DI-Norm* (*Deutsche Industrienorm*). For example, the first published standard was '*DI-Norm 1*' (about [tapered pins](#)) in 1918. Many people still mistakenly associate DIN with the old *DI-Norm* naming convention.

One of the earliest, and probably the best known, is [DIN 476](#) – the standard that introduced the [A-series paper sizes](#) in 1922 – adopted in 1975 as International Standard [ISO 216](#). Common examples in modern technology include [DIN](#) and [mini-DIN](#) connectors for electronics, and the [DIN rail](#).

2020 published [DIN SPEC 3105](#) is "the first German standard to be published under an [open license](#) ([CC-BY-SA 4.0](#)) [...] to implement an open standardization process".^[1]

See https://en.wikipedia.org/wiki/DIN_connector and https://en.wikipedia.org/wiki/Mini-DIN_connector for information on the familiar round DIN connectors we see on amateur radio and personal computer equipment.



Field Day - Regrouping

(by Ward, NOAX sourced from [ARRL Contest Update 2021-05-26](#))

Next month is ARRL Field Day, and after most groups didn't operate together in 2020, many will return to their usual ways in 2021. What's different in the [Field Day rules](#) this year? Well, the rule waivers put in place last year remain in effect. New in 2021, however, home stations (Class D or E) are limited to 150 W PEP output. It is always a good idea to check the rules in advance! But even though some things have changed since 2019, the fundamentals of a successful group Field Day remain in place. Let's revisit a few.



Agree On A Plan

There are as many ways of approaching Field Day as there are groups participating: club picnic, emergency communications exercise, competitive scoring, public demonstration, "county fair," and more. No one style is the best, but the common factor for success is for everyone to be aware of the plan in advance. A competitive Field Day effort is not the place for someone to just show up and experiment. Likewise, a competitive operator will not be happy if the primary goal is socializing with a little operating on the side. Managing expectations for RF, food, and operating is important to everyone having a good time. Make a plan and publish it so everyone knows what it is.

Play Well Together

Since Field Day in 2019, a lot of new gear has appeared, along with changes in modes and software. The latest and greatest stuff may work just fine by itself, but what about with other extremely close stations? Unless your group is operating in a one-transmitter class, this is a good time to find out who is bringing what type of radio. If someone is offering to bring a model with known noise issues, or a receiver that overloads easily, gently suggest that they leave it at home. It is not fun to discover radio shortcomings at 1800 UTC on Saturday!

Wideband transmitted noise presents real problems for Field Day efforts with multiple stations all located within the 1000-foot separation limit. So do harmonics and other spurious emissions. Every station should use a band-pass filter and have additional harmonic-suppression stubs available, if needed. (See *The ARRL Handbook* and *Antenna Book* for more information.) One of the first setup tasks should be resolving inter-station interference. Make sure all of the radios are configured for clean modulation, with mic gain and compression carefully adjusted. This is great practice for S02R (Single-Op, 2 Radios) or multi-op home stations!

With solar flux expected to stay below 100 and early summer conditions, only a couple of bands may be productive at a time. Trying to get a phone and CW or digital station on the same band requires careful attention to antenna location, very clean transmitters, and cooperative, patient operators. Planning operating time helps get the most out of the bands and operators.

Manage Your RF

Recognize that the stations will be temporary and with antennas close by, there may be RF issues to deal

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with due to the strong local signals. A lot of RFI problems can be minimized if attention is paid to bonding all of the equipment together, including computers. Bonding can be as simple as laying down a sheet of aluminum foil and using short clip leads to attach equipment to it. Take a look at the bonding examples from W6GJB and K9NN for portable stations in the Contributed Examples section of <http://www.arrl.org/grounding-and-bonding-for-the-amateur>. The goal is to keep equipment at close to the same voltage, avoiding hot spots and RF current where it shouldn't be. Bring plenty of type 31 or type 43 ferrite cores for RF chokes on sensitive cables, too.

Generator and AC Safety

Finally, don't overlook basic electrical safety. Make sure your power generation and distribution system is sound and secure. While ground electrodes (usually ground rods) are not required for most modern generators, many groups like to use them. If you do, all of the electrodes must be bonded together so that voltage differences between widely separated rods or short circuits don't create a shock hazard. Rain or dew are often encountered, so consider using GFCI-protected outlets at each station, too. *The ARRL Handbook's "Assembling a Station" and "Safe Practices" chapters are good sources of ideas.*

Ready, Set, CQ FD!



PRESENTS



What do amateur radio operators worldwide, think of their passion?

What do we wish for? What are we frustrated about? How many of us are active, versus those that are taking a break? Do we have favorite radios, antennas, or even favorite cw paddles? Do we prefer one contest over another?

The best way to find out is if we all participate in [Ham Census](#). Join in and let all amateur radio operators know your thoughts – share your views – then you can find out what everyone else is thinking, in real time.

Help shape the future of ham radio.™



Amazon to require FCC certification

February 21, 2021 By [Dan KB6NU](#)



Here's an interesting notice from Amazon:

[Action required for radio frequency device listings on Amazon.com](#)

This [Amazon] article was originally published February 1, 2021, and it has been adjusted to reflect a new estimated date for this change.

As part of our ongoing efforts to protect our customers and enhance the customer experience, Amazon is updating the requirements to offer radio frequency devices. This will affect some products you offer or have previously offered.

Starting in Q2 2021, in order to create new listings or update existing listings of radio frequency devices you will need to fill in the FCC Radio Frequency Emission Compliance attribute. In the attribute, you must do one of the following:

- Provide evidence of Federal Communications Commission (FCC) authorization – either an FCC certification number or contact information for the Responsible Party, as defined by the FCC.
- Certify that the product is exempt from FCC requirements.

As a reminder, per Amazon policy, all radio frequency devices must comply with FCC regulations and all applicable state and local laws, including registration and labeling requirements. Amazon also requires you to provide accurate information about your products on the product detail page.

You may not be aware that you are selling products the FCC considers radio frequency devices. The FCC broadly classifies as radio frequency devices any electronic or electrical product that is capable of emitting radio frequency energy. According to the FCC, almost all electronic or electrical products are capable of emitting radio frequency energy. Examples of products that are regulated by the FCC as radio frequency devices include, but are not limited to: Wi-Fi devices, Bluetooth devices, radios, broadcast transmitters, signal boosters, and devices with cellular technology. FCC guidance on what is considered a radio frequency device can be found on the [Equipment Authorization – RF Device](#) page on the FCC website.

We will follow-up with additional information, including a help page, closer to attribute launch.

For more information, see [Amazon's Radio Frequency Devices policy](#). You can also bookmark this article for future reference.

Some are saying that this is an effort to control the sales of Baofengs. Others point to other radiators, such as LED lights and solar charge controllers. The [reddit discussion](#) of this new policy pretty much dismisses this new policy. One comment notes, "This has nothing at all to do with buying radios, it's just Amazon trying to cover their @\$ses over the likes of 'Rugged radio'(and others) selling uncertified radios as something they're not.

I think that this could be interesting if Amazon really got serious about this. I'm not sure that even Amazon has the wherewithal to really do this kind of policing, though.



**Utica Shelby
Emergency
Communication
Association**

TALKIN KBUD 147.180
100Hz TONE

**TRUNK SWAP
JULY 11
PACKARD PROVING
GROUNDS
49965 VAN DYKE AVE
SHELBY, MI 48317
8:00 AM TIL 12:00 PM
7:00 AM SETUP**

Come one come all to the USECA Trunk Swap.

**FREE for all Attendees
and Vendors!**

Multi club event all outdoors will follow Covid protocol

HAM RADIO TESTING AT NOON

**We will be having ham radio exams on Sunday July 11 at 12:00 noon. Please text or
send email Jim, W6WV 556-768-0764 w6wv.vo@gmail.com W6YI CVE**

NOTE: NO FOOD (PLENTY OF RESTAURANTS CLOSE BY)

Hello JPEG X Good-bye JPEG ? ?

Sourced from [Wikipedia](#)

JPEG XL is a [royalty-free raster-graphics](#) file [format](#) that supports both [lossy](#) and [lossless](#) compression. It is designed to outperform existing raster formats and thus to become their universal replacement

NAME

- *JPEG* is the [Joint Photographic Experts Group](#), which is the committee that designed the format.
- *X* is part of the name of several JPEG standards since 2000: [JPEG XT](#), [JPEG XR](#), [JPEG XS](#).
- *L* means *Long-term* because the authors' intention for the format is to replace the [legacy JPEG](#) and last as long too. [\[3\]](#)

HISTORY In 2017, JTC1/SC29/WG1 (JPEG) issued a Call for proposals for JPEG XL – the next generation image coding standard. [\[4\]](#)

The file format (bitstream) was frozen on December 25, 2020, meaning that the format is now guaranteed to be decodable by future releases. [\[5\]](#)

FEATURES The main features are: [\[6\]](#)[\[7\]](#)

- Improved functionality and efficiency compared to traditional image formats (e.g. JPEG, GIF and PNG);
- Progressive decoding (by resolution and precision);
- Lossless [JPEG](#) transcoding with ~20% size reduction;
- Lossless encoding and lossless [alpha](#) encoding;
- Support for both photographic and synthetic imagery;
- Graceful quality degradation across a large range of bitrates;
- Perceptually optimized reference encoder;
- Support for [wide color gamut](#) and [HDR](#);
- Support for [animated](#) content,
- Efficient encoding and decoding without requiring specialized hardware
- In particular, JPEG XL is about as fast to encode and decode as old JPEG using [libjpeg-turbo](#) and an order of magnitude faster to encode and decode compared to HEIC with [x265](#). [\[8\]](#) It is also parallelizable.
- [Royalty-free](#) format with an [open-source](#) reference implementation. [\[9\]](#)

Future Programs & Activities

“The Phantom” — Activities Manager

- | | |
|-------------------|--|
| June 2, 2021 | Regular meeting night, and the annual Fox Hunt |
| June 15, 2021 | GMARC June Trunk Swap |
| June 21, 2021 | Monday, L’Anse Creuse VE testing at the Tucker Senior Center |
| June 26, 2021 | ARRL Field Day—N8LC will be at Addison Oaks County Park again. |
| July 11, 2021 | USECA Trunk Swap |
| July 17, 2021 | GMARC July Trunk Swap |
| August 21, 2021 | GMARC August Trunk Swap |
| September 1, 2021 | Regular meeting night. |

L'Anse Creuse ARC Board Members – 2021

President

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Secretary

Marty Folz, K8HVI
40360 Ryan Rd
Sterling Heights, MI 48310-1756
586-268-0544
k8hvi@arrl.net

Activities Manager

This position is available!

Analog FM **N8LC** Fusion Digital Only



LC Echo 2 Meter Repeater
Yaesu DR-1X 147.080 MHz
100 HZ PL

LC Echo 70 cm Repeater
Yaesu DR-1X 442.925 MHz
100 HZ PL

Board Meeting Time and Location

Board Meetings are held at 7 pm on the Wednesday after the regular membership meeting in September, November, January, March, and May. The location for May 2021 is to be determined. is [Roseann's Kitchen, 21400 15 Mile Road](#), Clinton Charter Township, 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 SK

Club Committee Chairmen

ARRL HF Awards Manager			Little Bay Awards	Dale McGorman	K8RO
ARRL HF Awards Assistant			Meeting Refreshments	Russ John	N8HAR N8NXW
ARRL VHF/UHF Awards Manager			Membership Chairman TC email distribution	John Huber	N8FYL
Call Sign ID Tags	Gregg Crump	N8GEO	Net Points Manager	Tom Mathison	WU8C
Christmas Party	Cathy Chauvin	KC8WVK	Net Points Upgrade Awards	Clem Duval	W8VO
Club Apparel & Patches	Scott Hernalsteen	W8CQD	TC Postal Distribution	John Huber	N8FYL
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	Russ Price	N8HAR
Door Prizes—Buyer	Doug Chauvin	N8PYN	<i>Tuned Circuit</i> Editor	John Huber	N8FYL
Door Prizes—Tickets	TBD		Volunteer Exams	Gregg Crump	N8GEO
Echo Repeater Trustee	Marty Folz	K8HVI	Webpage (n8lc.org)	Doug Chauvin	N8PYN
Field Day	Gregg Crump	N8GEO	Webpage Assistant	Marty Folz	K8HVI
Health & Welfare			Youth Forum (50/50) [Alternate]	Ralph Irish John Slobodnik	W8ROI N8NXW
Licensing Classes	TBD				

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 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, 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.

VE Testing Locations

LCARC has scheduled VE sessions at the Tucker Senior Center for June 21, and September 13. Doors open at 6 PM, and testing begins at 6:30 PM. Contact Gregg Crump n8geo.ham@gmail.com

=====

The current COVID-19 pandemic situation has disrupted many of the regular VE testing sessions. There ARE some testing opportunities available in our area according to the ARRL web site.

Go to <http://www.arrl.org/find-an-amateur-radio-license-exam-session>. Enter your Zip Code and the “within” distance, and click SEARCH. When I did it with Zip 48045 (the zip code for the Tucker Senior Center), and a “within 50 miles”, it reported 6 sessions spanning the time until a year from now.

Online Practice Exams:

<https://www.eham.net/exams>

<https://www.qrz.com/hamtest/>

<http://www.hameducation.org/>

Morse Code Resources:

Learn CW Online <https://lcwo.net/>

<http://www.g4fon.net>

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

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

<http://morsecodemasters.com/trainer/Examples/hct.html>



Upcoming Swaps

06/06/2021 - [Annual Chelsea Amateur Radio Club Swap Meet](#)

Location: Chelsea, MI
Type: ARRL Hamfest
Sponsor: Chelsea Amateur Radio Club
Website: <http://wd8iel.com>

[Learn More](#)

06/19/2021 - [GMARC June Trunk Swap](#)

Location: Shelby Township, MI
Type: ARRL Hamfest
Sponsor: GM Amateur Radio Club
Website: <http://www.gmarc.org>

[Learn More](#)

06/20/2021 - [Monroe Hamfest](#)

Location: Monroe, MI
Type: ARRL Hamfest
Sponsor: Monroe County Radio Comm Assoc
Website: <http://www.mcrca.org>

[Learn More](#)

07/11/2021—[USECA Trunk Swap](#)—FREE

07/17/2021 - [GMARC July Trunk Swap](#)

08/21/2021 - [GMARC August Trunk Swap](#)

09/18/2021 - [GMARC September Trunk Swap](#)

Upcoming VE Exam Sessions

06/21/2021 | [Harrison Township MI 48045-6506](#)

Sponsor: L'Anse Creuse ARC
Location: Tucker Senior Center
Time: 6:30 PM (Walk-ins allowed)
Contact: Gregg W. Crump (596) 738-2487
Email: n8geo.ham@gmail.com
VEC: ARRL/VEC

07/11/2021 [Shelby Township MI 48317-1307](#)

Sponsor: U.S.E.C.A ARC
Time: 12:00 PM (No Walk-ins / Register or Call ahead)
Contact: James J. Marek (586) 758-0764
Email: wi8w.ve@gmail.com
VEC: W5YI VEC

Location: Packard Proving Grounds
 49965 Van Dyke Ave
 Shelby Township MI 48317-1307

09/13/2021 | [Harrison Township MI 48045-6506](#)

There are some others, but they are farther away so check online to get details about them.

L'Anse Creuse Amateur Radio Club Nets

Day	Local Time	Band	Mode	Frequency	Net Control	Calendar
Monday	2000	15 M	CW	21.165 MHz	Clem, W8VO	Every Monday
Monday	2030	15 M	USB	21.395 MHz	Clem, W8VO	Every Monday
Monday	2100	6 M	USB	50.160 MHz	Gregg, N8GEO	Every Monday
Tuesday	2000	2 M Internet	Packet telnet	144.93 MHz ve2har.dyndns.org	RF Net is QRT Ralph, W8ROI	Every Tuesday (Connect to detqso)
Tuesday	2100	2 M	FM	147.08+ MHz	Sterling Heights CERT	2nd Tuesday of the month A LCARC sanctioned net run by the Sterling Heights CERT
Thursday	1930	10 M	USB	28.435 MHz	Clem, W8VO	Every Thursday
Thursday	2030	2 M	FM	147.08+ MHz	Clem, W8VO	1st Thursday
					Russ, N8HAR	2nd Thursday
					Gregg, N8GEO	3rd Thursday
					Mike, AC8ER	4th Thursday
					Fritz, KE8BFW	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)

___ \$10.00 Club Badge created with my Name and Call sign

___ Please update my membership information because it has changed.

Call sign: _____ Old Call Sign: _____ Street: _____

Name: _____ City: _____ State: _____

Spouse: _____ Zip: _____ - _____ 6 Character Grid Square (optional): _____

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.)

L'Anse Creuse Amateur Radio Club
Gregg Crump, N8GEO
29729 South River Rd
Harrison Twp MI 48045-3030

Only membership applications to go this address.. Make sure you use the full 9 digit zip code when mailing in your application.

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

Note: LCARC dues are from **Nov 1st to Oct 31st**

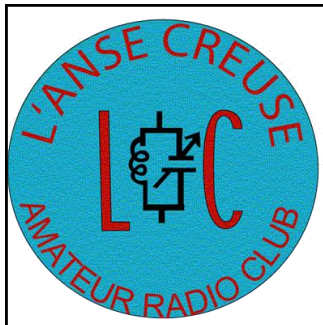
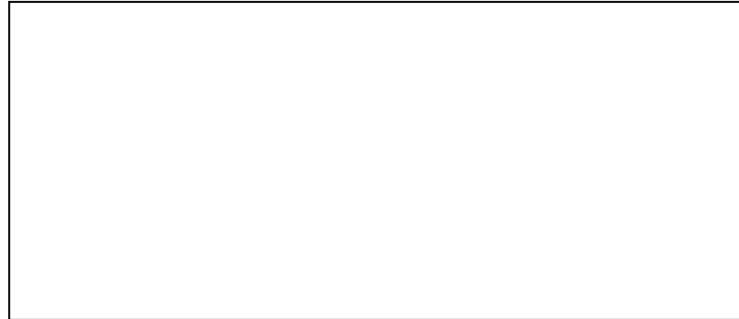
Class License (Circle One)

Novice Technician Tech+
General Advanced Extra

I am an ARRL Member: (Y / N / Life)

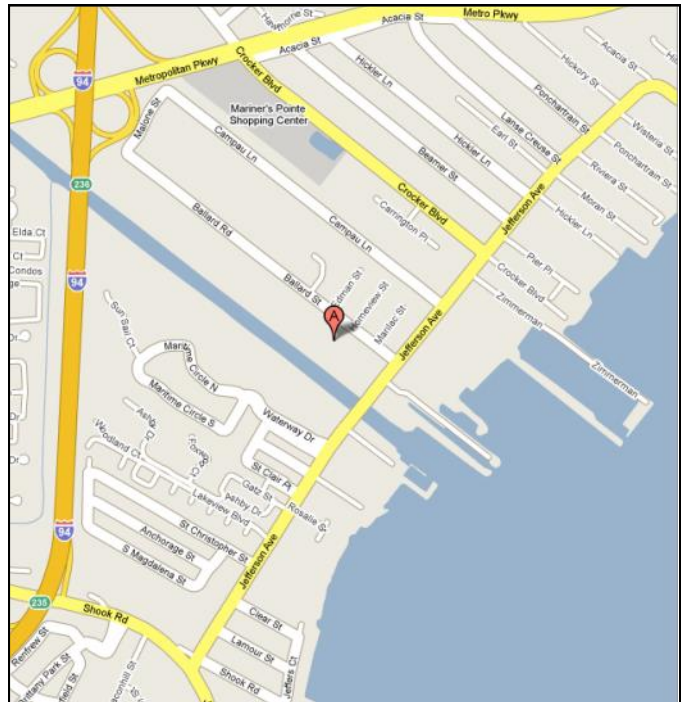
The Tuned Circuit
Monthly Bulletin of the
L'Anse Creuse Amateur Radio Club
29729 South River Rd
Harrison Twp, MI 48045-3030

First Class
Postage
+ Extra
Ounce



<http://www.n8lc.org>

E-mail: info@n8lc.org



The L'Anse Creuse Amateur Radio Club meets at 7:00 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.