

# THE TUNED CIRCUIT

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

## INSIDE THIS ISSUE:

[Click the link to jump to the item]

[May Meeting Program](#)

[The Secretary's Report](#)

[Membership Report](#)

[Future Programs](#)

[Upcoming Swaps](#)

[Club Nets](#)

**June TC  
Deadline:  
Monday  
May 25th**

Next Meeting - **NOT** 7:00 PM  
**MAY 6th 2020** at the Tucker Senior  
Center (see [last page](#) for map and  
address).

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

The NEXT board meeting **won't** be  
on Wednesday, May 13th, 2020.

## THE PREZ SEZ

# The May LCARC meeting is CANCELED

It has certainly been an unusual Spring – I don't think anyone would have ever imagined we would all be more-or-less homebound!

Hopefully, you are able to take some advantage of this time to either get on the air or get some much-needed work done on your station.

I do want to extend thanks and congratulations to Marty/K8HVI who has volunteered to take the secretary position for the rest of this term.

With the extension of the Governor's stay-at-home order, a traditional May meeting will not be possible, and I would doubt the option for a traditional June meeting – I hope things change by then.

With that being said, the April meeting was held on the repeater and sounded like it worked pretty well! I can't say if that will be repeated for May and/or June, but if so, we will get the news out via the reflector and our gracious editor's special announcements.

I am hoping you and your families are all doing well, are healthy, and have plenty of TP!

73!

Scott/W8CQD

# Report of the Secretary

by Marty / K8HVI

## Meeting Call to Order:

The LCARC Treasurer (Gregg Crump/N8GEO) called the April 1<sup>st</sup>, 2020 LCARC general membership meeting to order at 7PM on the club's 2 meter repeater due not being able to host the meeting at our normal location due to the COVID-19 restrictions.

**Roll Call** was taken and we had 22 persons in attendance:

N8GEO, WA8BIJ, W8ROI, N8PYN, WU8C, W8VO, N8FYL, KE8JBR, N5WCS, N8HAR, KR1NGL, K8HVI, KE4ZYQ, K8RWM, KD8RJN, WB8QYJ, WB8ITV, K8RO, NW8W, N8AT, W8AWL, K8LRM, W8OWL.

## Treasurer's Report by Gregg, N8GEO:

\$7621.08	Balance in the club account
\$527.00	Youth Forum Fund
\$161.54	Repeater Fund
\$6932.54	Unallocated club funds

At the time of this meeting, Gregg said that LCARC has no outstanding bills. When the \$1,150 check is returned from the Knights of Columbus for the 2019 radio raffle support, we will have \$8,082.54 available.

**Where's Doug:** No Report.

**Membership and Tuned Circuit Report;** by John/N8FYL:

The LCARC has 68 members. 4 new members.

The May *Tuned Circuit* deadline is April 27th.

**QSL Report:** by Dale/K8RO:

Dale said he is behind, but doesn't think we have a whole lot this month.

## Old Business:

**Dayton Hamvention;** by Gregg/N8GEO

Hotel rooms are cancelled since the Dayton Hamvention has been cancelled. Since the club already paid for our club table, the club board agreed to just leave the reservation money with them and apply it to the 2021 Dayton Hamvention.

**Michigan QSO Party;** by Greg/N8GEO

MIQP will likely not occur as the Tucker Center will likely not be available for our use. Some club members will run the MIQP contest from their home QTH.

(Continued on page 3)

(Continued from page 2)

### Net Points; by Clem/W8VO:

Name	Points	Name	Points	Name	Points
Tom / WU8C	4900	Dale / K8RO	450	Fred / WB8ITB	50

### Meeting Minutes Approval.

A motion to approve the March meeting minutes as presented in the April *"The Tuned Circuit"* newsletter was made by Clem/W8VO and seconded by Mike/N5WCS. The motion was approved.

### Club Constitution Update: by Gregg/N8GEO

Everyone should have gotten a copy of the proposed constitution changes that were reviewed and agreed to by the LCARC Board. Gregg read through the entire document of the proposed constitution changes. Discussion was held on each of the items. After discussion, the document did not need any further changes. The changes will get updated into the full constitution document and sent out to the club.

### Remote Access to club meetings:

Multiple persons brought up the idea to have remote connectivity set up so they could participate during our regular club meetings. They were happy that since this club meeting was held on the club repeater, they were able to attend. Options brought up were to have say Echolink or Zoom like capability hooked up at the Tucker Senior Center for our club meetings. If you are interested in leading this capability and setting up the connections/microphones at future club meetings, please bring it up to the group.

### Miscellaneous:

Doug/N8PYN wanted to mention it is April 1<sup>st</sup> which is the birthday for 3 of our club members, Dale/K8RO, Ralph/W8ROI, and Russ/N8HAR. Happy Birthday gentlemen!!

The meeting was closed at 7::57pm.

CQ MIQP CQ MIQP N8LC MIQP  
Michigan QSO Party was April 18, 2020

The 2020 Michigan QSO Party is now in the history books, well in the logs, at least. As of "press time", 475 logs have been submitted. Scanning through the [Logs Received](#) page, I see 8 logs submitted from club members. In the "Fixed Single Op High" category are logs from Dale / K8RO (currently 4th highest claimed score), Ted / K8EO, lurking at 13th, and Russ / N8HAR, down in the pack. The five in "Fixed Single Op Low" are John / N8FYL (currently listed at 13th), and further down the list are Gregg / N8GEO, Matt / KD8LLT, Lito / K8AJJ, and Mike / N5WCS.

Information on the received logs page does not include the station location, so it is not possible to separate the Michigan and out of Michigan stations, but I think the top scorers in both categories are all Michigan stations.

John / N8FYL

## MAY 6TH MEETING CANCELED!!!

The May meeting is canceled due to the COVID-19 pandemic restrictions that are in place.



**MEETING is Canceled!!**



## Membership Report

No changes in membership numbers in the past month, but there is one call sign change to report. Phil / K8ZOO is now officially N8TTT.

We remain at 68 members. 9 are life members, and 59 are regular members, of which 4 are enjoying the first year free experience.

John / N8FYL — 4/28/2020



## Contest University 2020 — Online & FREE !

From Tim / K3LR

I am pleased to announce that Contest University USA 2020 will be held on-line via Zoom on Thursday May 14, 2020. CTU 2020 is free. The CTU course outline is posted here

<https://www.contestuniversity.com/course-outline/>

Connection details to the CTU Zoom bridge will be posted on the Contest University one week ahead of CTU.

CTU 2020 will be recorded for easy viewing any time after May 14 and the slide decks will be posted on the CTU website as well.

At the end of CTU 2020 Dave, K3ZJ from CQ Magazine will present the 2020 CQ Contest Hall of Fame awards – live on the Zoom bridge.

73, Tim K3LR  
Contest University Chairman

<http://contestuniversity.com>



## A MODEST PROPOSAL (FOR THE NEXT EXTRA CLASS QUESTION POOL)

By Dan Romanchik, KB6NU

At our last club meeting, I was discussing the changes to the Extra Class question pool with someone, and the topic of memorizing the answers popped up. As I always do, I mentioned that many of the questions you can only get right by memorizing the answer. At that point, someone down the way piped up. “Not me,” he said, “I studied the material so that I didn’t have to memorize the answers.”



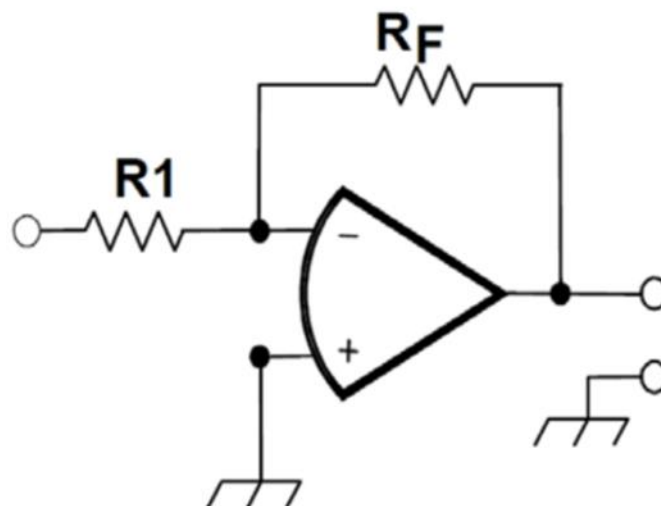
At that point, the president called the meeting to order, so I didn’t get to challenge him on that point, but that statement is just plain wrong. First of all, it’s true that some questions you can only get right by memorizing the answer. Almost all of the rules questions are that way, for example.

Secondly, there is no way to study the rest of the material in any depth and still have time to actually be an amateur radio operator. The amount of material that the Extra Class question pool covers takes an electrical engineering student four years or more to study thoroughly. And even then, some topics are bound to get short shrift.

So, we’re back to memorizing. I would say that even an “engaged” person will memorize about half the answers. I’d go even further and say that those that “study” the technical topics, don’t study it as thoroughly as a college student would.

For example, there are a dozen questions in Section E7G – Active filters and op-amp circuits: active audio filters; characteristics; basic circuit design; operational amplifiers. Despite the name, you don’t need to know how to design or build an op-amp filter. All you really need to know is that op-amps are high gain devices and if you have a circuit like the one shown below,  $V_{out}/V_{in} = R_F/R_1$ .

**Figure E7-3**



(Continued on page 6)

(Continued from page 5)

These concepts are relatively easy to learn. but there are also two questions on filter “ringing.” Honestly, you’re better off just memorizing the answers to those questions unless you have a real interest in active filters that use op amps. Wading into the mathematics isn’t all that hard, but when you consider this is only one of dozens of topics, you can see where doing any kind of in-depth study is going to take you months, if not years, to accomplish.

## A modest proposal

The end result of this approach to testing is that we have many Extra Class licensees who know about a lot of things, but not in very much depth. Perhaps that’s OK. Perhaps that’s just what the question pool committee of the National Council of Volunteer Examiner Coordinators (NCVEC) was shooting for. If, however, we want an Extra Class license to denote that the licensee has some real technical expertise, I have a modest proposal.

Basically, my idea is that instead of testing on an incredibly wide range of topics, we test applicants on a set of basics, plus one or two particular topics. These would be topics that the person has expertise in already or enough of an interest in to study the topic in some depth.

Below are the topics that I would consider to be basic and some that I consider to be more specialized. This is, of course, not an extensive list.

- Basic questions (20 questions, everyone takes this part of the exam)
  - Safety
  - Rules and regulations
  - Electrical principles/basic circuits
- Technical Interests (Choose two, 20 questions each)
  - Antennas and transmission lines
  - Radio wave propagation
  - EMI/RFI
  - Analog and digital design
  - Digital communications and networking
  - Software/software-defined radio
  - Operating: contests, DXing, direction finding, etc.
  - VHF/UHF

The questions in each of the technical interest question pools would be designed to really test the knowledge of the person taking the test. We’d have to figure out a way to make them difficult enough so that one couldn’t just simply memorize the answer. Questions could appear in one or more technical interest test. For example, a question on VHF/UHF propagation could appear in both the Radio Wave Propagation and VHF/UHF question pools.

(Continued on page 7)

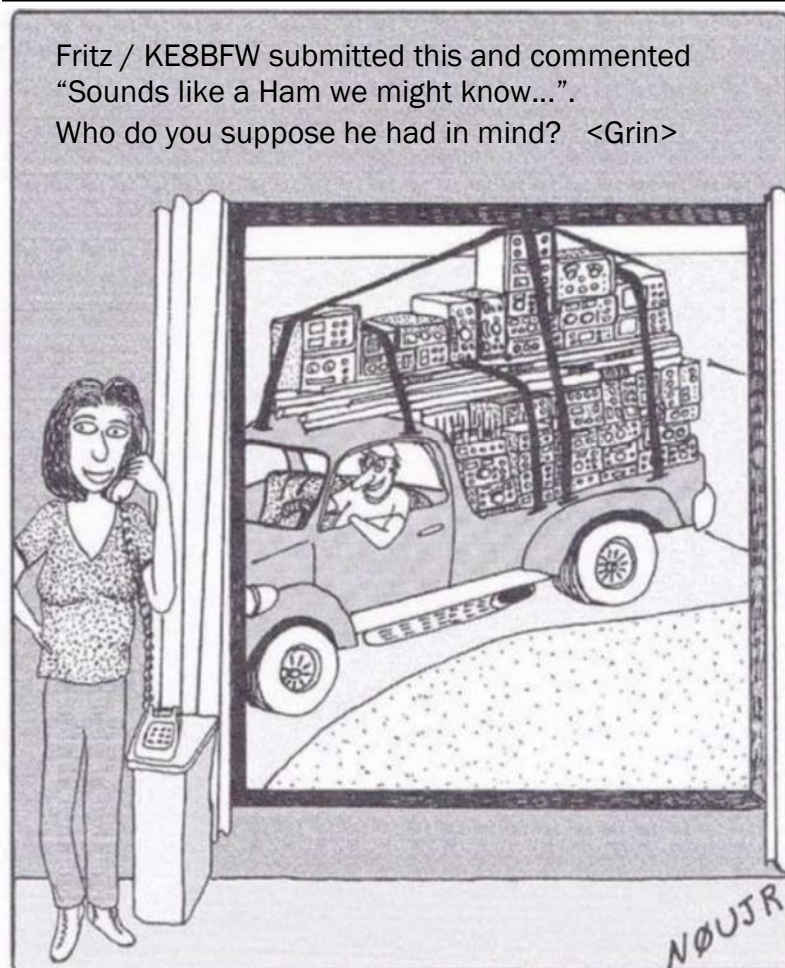


(Continued from page 6)

Having said all this, I realize that this would not be easy to implement. You'd have to first decide on the topics and then enlist experts for each of the topics and get them to come up with a list of 80 – 100 questions each.

I realize that this has very little chance of being adopted, but it's interesting to think about, no? And, we have four years to do this, so it could be possible.

Dan Romanchik, KB6NU, is the author of the KB6NU amateur radio blog ([KB6NU.Com](http://KB6NU.Com)), the "No Non-sense" amateur radio license study guides ([KB6NU.Com/study-guides/](http://KB6NU.Com/study-guides/)), and often appears on the IC-QPodcast ([icqpodcast.com](http://icqpodcast.com)). When he's not thinking up ways to make the lives of the NCVEC question pool committee more difficult, he likes to build stuff and operate CW on the HF bands.



"No, Greg went to the ham auction today to get rid of a couple old radios that were cluttering up the place...Oh I think I hear him pulling in now..."

## A Couple of Items from The ARRL Contest Update for April 29, 2020

If you have a tower or are considering putting up a tower, please review DX Engineering's blog article "[Tower Safety \(Part 1\): An Introduction to Climbing](#)," not just for technical information, but also for the attitude and considerations necessary to safely install and maintain this equipment.

[ARRL members can enjoy a new member benefit: They can now read the digital versions of NCJ and QEX online.](#) Members now have exclusive access to four magazines, each with their own unique content: *QST*, *On the Air*, *QEX*, and *NCJ*.

"Antenna Vaporized by Lightning" - An accurate title of [this video posted to YouTube by SP5KAB and tweeted by Sterling. NOSSC.](#)

According to Jeff, WK6I: "Sprints are popping up everywhere like the wildflowers here in the Sierra Nevada...." and includes [weekend RTTY sprints](#), [weekday RTTY sprints](#), as well as the [RSGB Hope QSO Party RTTY segments](#). (WK6I via [RTTYDigital Group](#))

Here's a reminder for an on-the-air HF radio activity announced March 26, 2020.  
Scott / N3FJP suggests that for US operators, his [RAC contest module](#) will support the exchange.  
N1MM+ users can use the [HAMVENT\\_QP.UDC](#) user defined contest.  
Get on and have some fun!

## Hamvention QSO Party

From <https://wwrof.org/hamvention-qso-party/>

The Dayton Hamvention for 2020 has been [cancelled](#). WWROF, in cooperation with the Hamvention organizers, wanted to create a fun way for people to celebrate the Hamvention experience over the air – the Hamvention QSO Party.

*In memory of Ron, W8ILC, who became a silent key just two days after the Hamvention 2020 cancellation announcement. Ron had attended every Hamvention since the beginning.*



This is a 12 hour fun event on Saturday of Hamvention May 16, 2020.

**Object:** To celebrate the Dayton Hamvention by working as many Amateur stations as possible during the QSO Party period.

**Contest period:** 8 AM to 8 PM EDST (1200 to 2400 UTC), May 16, 2020

**Bands:** 160, 80, 40, 20, 15, and 10 meters CW and SSB – You can work the same station once per band mode (12 QSOs possible with same station).

**Exchange:** Signal report and first year you attended Hamvention. If you have never attended Hamvention send “2020”.

**Entry Categories:** Only single operator entries – you may use assistance such as the cluster and the reverse beacon network (RBN). No self-spotting.

There are three power levels:

- QRP – no more than 5 watts
- Low Power – No more than 100 watts
- High Power – no more than 1500 watts.

**Scoring:** Score is number of QSOs + bonus points = final score. There are no multipliers.

Special bonus points:

**To Enter:** Post your score at [3830scores.com](https://3830scores.com) within 5 days of the event (May 21, 2020).  
No logs are required.

**Awards:** An online certificate will be available to all stations that post a score before the deadline.



# The Loudspeaker

or **Speaker** as we know it today

So how did the loudspeaker come to be? Well here is a short history lesson on the speaker.

A series of events brought together Richard O'Connor, an investor in San Francisco, Edwin Pridham, from Maywood, IL. and Peter Jensen, from Denmark. (Yes, Jensen of the Jensen Speaker Co., but that's another story.)

First organized on March 1 of 1911, the company's name was the Commercial Wireless and Development Company. Property was leased in Napa, California, where Jensen and Prindham began research. At the time they were making and installing wireless (spark) stations.

Their first goal was to develop a more sensitive telephone capable of greater distance. In 1911, they developed the dynamic, or moving-coil principle, which in May of 1915, became the key to the loudspeaker invention. This same principle was used throughout the speaker industry.



Above: Carl Albertus, master mechanic, and Hugh Sym, mechanic, working in the machine shop at Napa lab; 1913

To be nearer commerce, operations were moved to San Francisco in 1916. The two inventors had developed the world's first public address (PA) system, and electronically amplified phonograph.

By 1917 the loudspeaker, heard by thousands at various gatherings, was given the name Magnavox (Latin for Great Voice) by its inventors. Its popularity grew, and the public commonly referred to the instrument as "The Magnavox".

The need for additional capital and a means of reaching a greater market resulted in a merger with the Sonora Phonograph Company. The new organization was given the obvious name, The Magnavox Company, July 6, 1917. The company continued to be a leader in the development of electronic equipment supplied to the military and in later years a leader in consumer electronics.

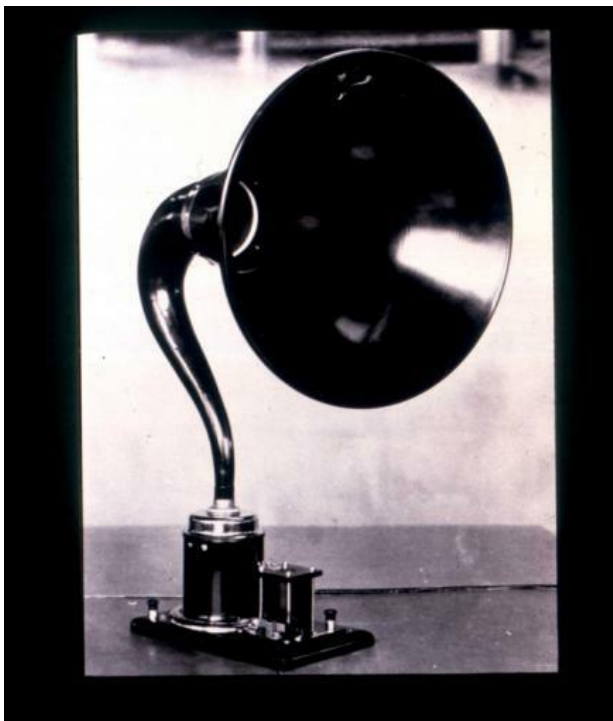
For those who are interested in history of early radio, I encourage you to go to the links and read the entire detailed history. Magnavox had many firsts from military radio equipment to consumer electronics.

Home page: <http://magnavoxhistory.com/>

Early history: <http://magnavoxhistory.com/early-history-magnavox/>

Timeline: <http://magnavoxhistory.com/timeline/>

This item sourced with permission from the [February 2020 Ozark QRP Banner](#), published by the [Four State QRP Group](#).



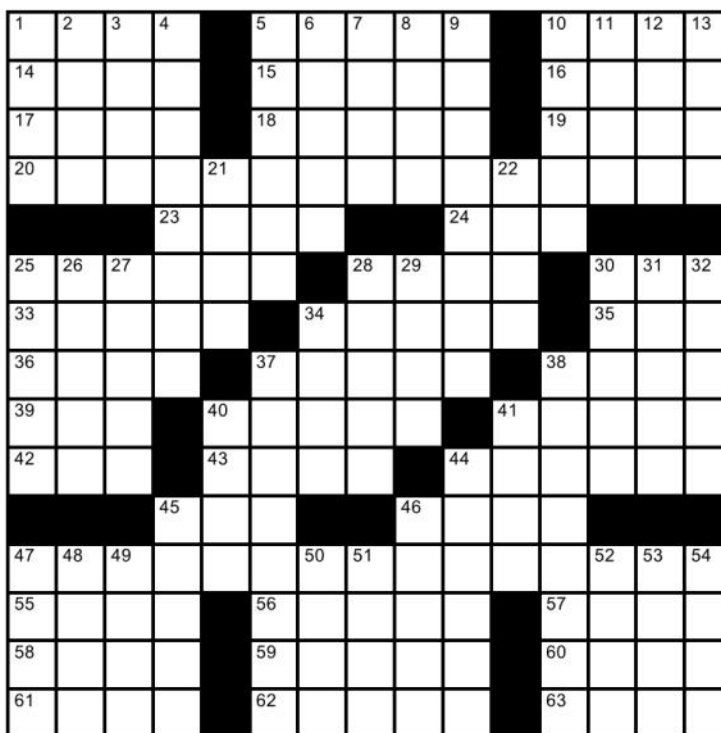
World's First Loudspeaker, named the Magnavox, Latin for "Great Voice."

# CQ Contest

By [Chris Codella, W2PA](#) 3/10/2008

## Across

1. Radiation pattern part
5. Contest off-time ender, possibly
10. The "Olympics" of contests
14. IOTA item
15. Unusual object
16. "Long \_\_\_\_" (DX)
17. VE8 mobile?
18. Hammerin' Hank
19. 1091 using 44-across
20. An advantage of being weak?
23. In early radio, some rotated and some didn't
24. Foot part
25. Wayward circuit paths
28. Knight neighbor
30. 3W holiday
33. QTH on the range
34. 160 meter Stew
35. The one with QTC
36. Sheltered, when /MM
37. They don't count, and may count against you
38. CW parts
39. Plating material
40. Typewriters (in ham speak)
41. Military cap
42. The only CW many people know
43. One way to stand by
44. Abbreviated figs. (abbr.)
45. AMSAT launch partner
46. Currency used by 45-across, mostly
47. Predatory contesting?
55. EI-land, in EI-speak
56. VQ9 first name
57. They make the 45, sometimes for big guns
58. Western competing org.
59. 3:1 dash to dot ratio, say
60. "Yikes!"



61. Biblical verb
62. Prefix with -cotta
63. Xtal filter replacements

## Down

1. Daffy Duck's programming language?
2. LA city
3. A fuse maybe did this
4. Many hams also have one
5. Bidirectional flow
6. KH6-fests
7. June VHF QSO Party sponsor
8. Funny one
9. Non-op hams at 10-across stations
10. Large cetacean
11. Suffix with glitte- or lite-
12. Twiddle the big knob

13. Yaesu front panel marking
21. Contesters try to maximize it
22. 21-down, for a first-time tester?
25. 'Test results figs.
26. Prefix with centric or sphere
27. A band sometimes does it at dawn
28. CQ answer
29. Valuable minerals
30. Region net for NNJ and others
31. Gourmand
32. NAQP, CQWW and others, briefly
34. Push-\_\_\_\_
37. Response to a contest exchange, say

38. Took an alternate route
40. Catchall abbr.
41. QSL handler, slangily
44. Vaulted roof
45. Construct, as a tower
46. "Nevermore" quote quoter, informally
47. Transmit
48. Kit maker, once
49. Ominous noises from the amp, maybe
50. Assistant
51. At no time, poetically
52. Holiday drinks
53. OM in G-land
54. High V points on a dipole

TC Editor says "When I printed this page, it was very clear.

Click [answers](#) and scroll down to see the solution.



ARRL Field Day is June 27, 2020. With all the uncertainty about the state of “social distancing” recommendations/guidelines/mandates due to the Covid-19 pandemic, it’s anybody’s guess as to how the club will participate this year. We will just have to wait and maybe a month from now there will be a clearer view of the what kind of event we can have at the end of June.

Another topical item from Fritz / KE8BFW who said: “This was shamelessly stolen from FaceBook. Don't worry, I washed my hands afterward”



**HAM RADIO**  
The original social distancing

## Future Programs & Activities

Scott Hernalsteen, W8CQD — Activities Manager

May 6, 2020 **NO** Regular Meeting—we’re still quarantined by the Governor’s order.

May 15-17, 2020 Canceled for 2020—“Dayton” Hamvention in Xenia, OH

June 3, 2020 Regular Meeting (we hope) followed by annual Fox Hunt

June 27, 2020 ARRL Field Day—stay tuned for how it will play out this year of Covid-19

August 1, 2020 16th Annual Mind Over Matter ALZ Cycling Event

September 2, 2020 Regular Meeting

## L'Anse Creuse ARC Board Members – 2020

### President

Scott Hernalsteen, W8CQD  
40202 Vincenzia Dr  
Clinton Twp, MI 48038-4084  
586-201-5713  
[w8cqd@arrrl.net](mailto:w8cqd@arrrl.net)

### VP and President-Elect

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

### Secretary

Marty Folz, K8HVI  
40360 Ryan Rd  
Sterling Heights, MI 48310-1756  
586-268-0544  
[k8hvi@arrrl.net](mailto:k8hvi@arrrl.net)

### Treasurer

Gregg Crump, N8GEO  
29729 South River Rd  
Harrison Twp, MI 48045-3030  
(586) 477-0364  
[n8geo@arrrl.net](mailto:n8geo@arrrl.net)

### ARRL Liaison

Gregg Crump, N8GEO  
29729 South River Rd  
Harrison Twp, MI 48045-3030  
(586) 477-0364  
[n8geo@arrrl.net](mailto:n8geo@arrrl.net)

### Activities Manager

Scott Hernalsteen, W8CQD  
40202 Vincenzia Dr  
Clinton Twp, MI 48038-4084  
586-201-5713  
[w8cqd@arrrl.net](mailto:w8cqd@arrrl.net)

### Past President

Ken Janicki, KD8RJN  
55775 Nile Way  
Macomb, MI 48042-6188  
(586) 786-1408  
[kenjanicki@comcast.net](mailto:kenjanicki@comcast.net)

### Technical Officer

Doug Chauvin, N8PYN  
29112 Elmwood St.  
St Clair Shores, MI 48082  
(586) 775-1891  
[n8pyn@yahoo.com](mailto:n8pyn@yahoo.com)

Analog FM



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

Fusion Digital Only



LC Echo 440 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 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

### Club Committee Chairmen

ARRL HF Awards Manager	Tom Mathison	WU8C	Little Bay Awards	Dale McGorman	K8RO
ARRL HF Awards Assistant	Vince Cuker	WA8BIJ	Meeting Refreshments	Russ John	N8HAR N8NXW
ARRL VHF/UHF Awards Manager	Allan Koch	KA8JJN	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	KC8WNK	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	Wayne Hearn	WG8U	Volunteer Exams	Gregg Crump	N8GEO
Echo Repeater Trustee	Marty Folz	K8HVI	Webpage ( <a href="http://n8lc.org">n8lc.org</a> )	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 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](mailto:n8fyl@arrl.net) or [editor@n8lc.org](mailto: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

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

**Hazel Park**—Jerry Begel, W9NPI, [w9npi@arrl.net](mailto:w9npi@arrl.net) 248-543-2284

First Tuesdays of Even Months.

Howell ([Livingston Amateur Radio Klub](#))  
Second Tuesday of each month, 7PM, at the Livingston County EMS Facility, 1911 Tooley Road, Howell, MI. ALL AMATEUR EXAMS AT THESE SESSIONS ARE FREE.

### LCARC

June 15, 2020 at 6:00 PM,  
August 17, 2020 at 6:00 PM  
December 6, 2020 at our swap

**Motor City** 313-676-6284

**USECA** <http://usecaarc.com/test/>

1st Monday Monthly except during the months of July and August at 7 pm at [Macomb County Emergency Management & Communications, 21930 Dunham Rd, Mt. Clemens MI.](#)

## Online Practice Exams:

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

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

<http://www.ah0a.org/AHOA.html>

## 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

05/02/2020 - **CANCELED Cadillac Hamfest**

**Location:** Cadillac, MI

**Type:** ARRL Hamfest

**Sponsor:** Wexauke Amateur Radio Club

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

[Learn More](#)

05/15/2020 | **CANCELED 2020 Dayton Hamvention**

**Location:** Xenia, OH

**Type:** ARRL Hamfest

**Sponsor:** Dayton Amateur Radio Association

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

06/07/2020 | **CANCELED Chelsea Amateur Radio Swapmeet**

**Location:** Chelsea Fairgrounds, Chelsea, MI

**Type:** Hamfest

**Sponsor:** Chelsea Amateur Radio Club

**Website:** <http://wd8iel.com>

[Learn More](#)

06/21/2020 - **Monroe Hamfest**

**Location:** Monroe, MI

**Type:** ARRL Hamfest

**Sponsor:** Monroe County Radio Communications Association

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

[Learn More](#)

07/18-19/20 - **CANCELED Vintage Electronics Expo**

**Location:** [Burton Manor, 27777 Schoolcraft, Livonia, MI 48150](#)

**Type:** Vintage electronics

**Sponsor:** Michigan Antique Radio Club

[Learn More](#)

07/25/2020 - **Gladwin Area ARC Hamfest**

**Location:** Gladwin, MI

**Type:** ARRL Hamfest

**Sponsor:** Gladwin Area Amateur Radio Club

[Learn More](#)

09/13/2020 | **Findlay Hamfest**

**Location:** Hancock County Fairgrounds, Findlay, OH

**Type:** Hamfest

**Sponsor:** Findlay Radio Club

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

[Learn More](#)

09/19/2020 [Saturday] **CMARC Hamfest**

**Location:** Okemos Convention Center, 2187 University Park Drive, Okemos, MI 48864

**Type:** Hamfest

**Sponsor:** Central Michigan Amature Radio Club

**Website:** <http://centralmiarc.com>

[Learn More](#)



## 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	Wayne, WG8U	Every Monday
Monday	2100	6 M	USB	50.160 MHz	Gregg, N8GEO	Every Monday
Tuesday	2000	2 M	Packet	144.93 MHz	TBD—Net is QRT	Every Tuesday (Connect to detqso)
Thursday	1930	10 M	USB	28.435 MHz	Clem, W8VO	Every Thursday
Thursday	2030	2 M	FM	147.08+ MHz	Clem, W8VO	1st Thursday
					Wayne, WG8U	2nd Thursday
					Gregg, N8GEO	3rd Thursday
					Mike, AC8ER	4th Thursday
					Fritz, KE8BFW	5th Thursday

## Membership Request

Date: \_\_\_\_/\_\_\_\_/\_\_\_\_

Request For:

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: \_\_\_\_\_

\_\_\_\_ \$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.

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 )

Call sign: \_\_\_\_\_ Old Call Sign: \_\_\_\_\_ Street: \_\_\_\_\_

Name: \_\_\_\_\_ City: \_\_\_\_\_ State: \_\_\_\_\_

Spouse: \_\_\_\_\_ Zip: \_\_\_\_\_ - \_\_\_\_\_ 6 Character Grid Square (optional): \_\_\_\_\_

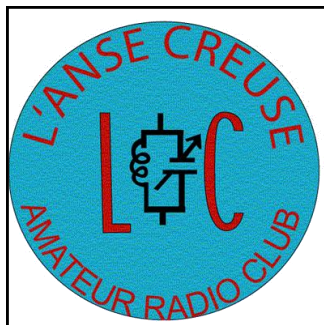
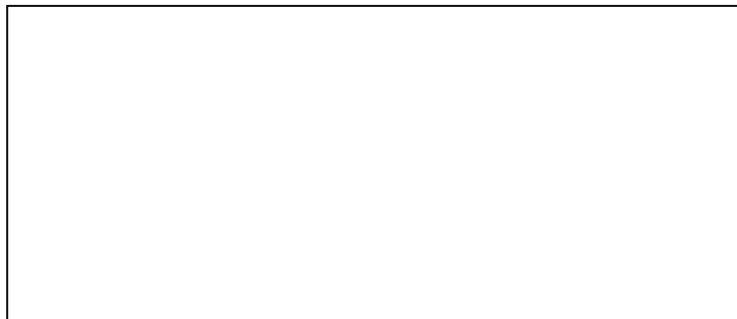
Phone: (\_\_\_\_\_) \_\_\_\_\_ - \_\_\_\_\_ Email Address: \_\_\_\_\_

(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.)

## *The Tuned Circuit*

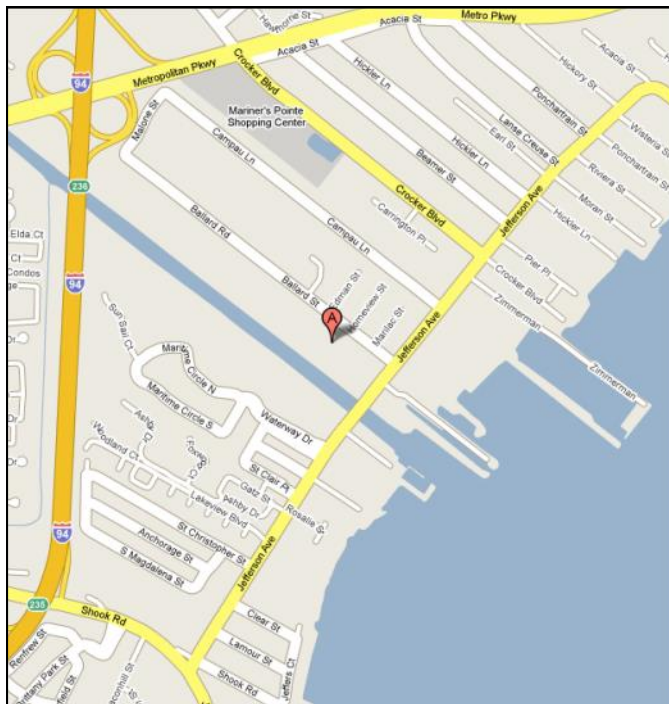
Monthly Bulletin of the  
**L'Anse Creuse Amateur Radio Club**  
29729 South River Rd  
Harrison Twp, MI 48045-3030

First Class  
Postage  
+ Extra  
Ounce



<http://www.n8lc.org>

E-mail: [info@n8lc.org](mailto: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.