

THE TUNED CIRCUIT

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

INSIDE THIS ISSUE:

[Click the link to jump to the item]

[March Meeting Program](#)

[The Secretary's Report](#)

[Membership Report](#)

[Future Programs](#)

[Upcoming Swaps](#)

[Club Nets](#)

**April TC
Deadline:
Monday
March 23rd**

Next Meeting - 7:00 PM March
4th 2020 at the Tucker Senior
Center (see [last page](#) for map and
address).

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

The NEXT board meeting will be
on Wednesday, Mar 11th, 2020.

THE PREZ SEZ

The snow is melting, the ground is softening, which means it is almost time to do antenna work!

Of course, this being Michigan, that could change quickly!

Our monthly dinners have started back up and it seems that we get good turnouts as we have before. Those are always nice times to sit and socialize with other members, so keep watching for the announcements of those gatherings and try and make time to show up.

Dayton is rapidly approaching, so if you are planning to go, now is the time to make your arrangements if you haven't already.

There was a request for a special meeting which will be happening this week (as I write this) and the plan is to discuss possible changes/amendments to the club constitution and bylaws. These changes will be presented at the March meeting for discussion and review with the goal of voting on the changes at the April meeting.

The club still needs a secretary. As I've said before, this is a critical role in the club as they are the person who maintains the official record of what the club accomplishes at meetings. That being said, it is not as hard of a job as it sounds! The secretary doesn't have to record everything that was *said* at a meeting, only what business the club did.

Hope to see everyone at the March meeting!

73!

Scott/W8CQD

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

Notes of the Un-secretary

by John / N8FYL

Meeting Called to Order:

The LCARC President (Scott, W8CQD) called the February 5, 2020 LCARC general membership meeting to order around 7:11 PM.

19 members and 1 visitor, Dennis/N8MKG in attendance.

Meeting Minutes Approval: There are no official minutes of the January meeting, since we have no secretary.

Treasurer's Report by Gregg, N8GEO:

At the time of this meeting, Gregg said that LCARC has no outstanding bills.

8128.71	Balance in the club account
517.00	Youth Forum
340.69	Repeater Fund
7271.71	Unallocated club funds

The check to the Knights of Columbus for the 2019 radio raffle support has gone out (\$1400) and that amount will be returned. After that the account balance will be 8271.71.

Where's Doug, etc: N8PYN is not at the meeting tonight.

Gregg/N8GEO made comments on the club block of rooms for Hamvention. Gregg also has made labels with the club contact information for the purpose of putting on magazines people might be inclined to leave in waiting rooms and other public places. Gregg has the labels available for anyone who would like some.

Gregg/N8GEO is seeking information on a lower cost, local source, for club name badges. Our long time supplier seems to have decided to retire. The nerve!

Repeater:

Repeater internet: Marty/K8HVI & Dale/K8RO are still tinkering with internet in the repeater shack.

Shack Insulation: Ken/KD8RJN reviewed the insulation panels installation issues and the thermostat control for the heater.

Tower work: information and discussion regarding quotes for work on the antennas on the tower.

Ken/KD8RJN has received a quote of around \$1009.00 from a Thompson Engineering from North Street, MI. This is a reasonable and affordable price. The club needs to compile a wish list and generate a requirements list to get a quote for the exact work we want done.

Net Points Report from Clem, W8VO:

Name	Points	Name	Points	Name	Points
Wayne/WG8U	6300	Tom/WU8C	4800	Clem/W8VO	3300

QSL Report by Dale, K8RO:

Dale said that 8 QSLs came in this month, 6 SSB, 1 digital, 1 rejected for incorrect mode.

Membership and Tuned Circuit Report by John, N8FYL:

The LCARC has 79 members. The February *Tuned Circuit* deadline is February 24th.

Business:

(Continued on page 3)

(Continued from page 2)

Secretary: The club secretary position remains vacant. Your club needs a volunteer to fill this important position soon.

Winter Field Day: The club activity was canceled due to Tucker Senior center becoming unavailable to use due to some maintenance scheduled that weekend.

Swap: Russ/N8HAR had flyers at the Vintage Electronics Expo at the Costick Center in Farmington Hills on Saturday, February 1st. Russ still needs to register our swap with the ARRL.

VE Session: will be February 10th at 6 PM. W5YI VEs will be used.

Quorum: It was brought to the attention of those present that according to our constitution and bylaws we do not have a quorum present and therefore can't conduct any real business.

Break for refreshments and rag chewing from about 7:38 PM to 7:57 PM

Drawings: No door prizes - N8PYN not in attendance.

50/50: John/N8FYL—\$10.00

Other:

Ken/KD8RJN regaled us with his tale of messing with a scammer who wanted him to buy Amazon Gift cards.

John/N8NXW has more “stuff” from Macomb Community College—including three tube type shortwave radios (probably receivers).

Program: There was no formal program due to technical (YouTube) difficulties.

ARRL Great Lakes Division Convention

Rapidly approaching is the ARRL Great Lakes Division Convention. This year, it will be held in conjunction with the [Toledo Mobile Radio Association's annual hamfest](#) in Perrysburg, OH on March 14 and 15.

ARRL President Rick Roderick K5UR will be there to meet members and serve as the keynote speaker. Another special attendee is Bob Heil K9EID of Heil Sound who will be a guest speaker. Check the web pages at: www.toledoglc.org for the full convention details.

[Editor: Note that the hamfest is only on Sunday, but the convention has activities are on both days.]

Help Needed!!!

Secretary. No experience necessary. Skills needed are note taking, and using email. **Primary Duties:** take notes during LCARC meetings, type them up on your computer, and email them to *The Tuned Circuit* editor. **Perks:** you become a member of the LCARC Board and get to sit at the front of the meetings!



Skywarn Weather Spotter Workshop classes will be held on Wednesday March 11, 2020 from 7 PM to 9 PM (registration is at 6:30 pm) and on Saturday April 4, 2020 from 10 AM to 12 PM (registration is at 9:30 AM). Workshops are at the Macomb Intermediate School District, 44001 Garfield Rd, Clinton Twp, MI. Register via email at mco-em@macombgov.org or by phone at 586-469-5270. See the flyer at <https://oemc.macombgov.org/sites/default/files/content/government/oemc/pdfs/SkywarnFlyers2020.pdf>

MARCH 4TH MEETING PROGRAM

The March program will be revealed at the meeting
[because the editor has received no information to publish]
but I expect there will be discussion about revisions to the club by-laws and constitution.



MEETING time is 7:00 PM



Membership Report

The February meeting is now in the past and so the membership database has been culled of those who chose not to renew their membership. We now have 68 members. 9 are life members, and 59 are regular members, of which 4 are enjoying the first year free experience.

John / N8FYL — 2/25/2020



TWO AND A HALF MONTHS AND ITS DAYTON TIME AGAIN!

Well, you've had time to think about Dayton Hamvention (May 15, 16, 17), 2020. Ted, K8EO, did some background work and found us a place to lay our heads after a hard day of looking for treasures at Hamvention. He found a place not too far away (about 19 miles, just far enough to avoid crowds) for us to get some much needed rest.

It's at the following place:

Holiday Inn Express Dayton South - I-675
7701 Washington Village Dr
Dayton Oh 45459
937 938 9550

There are single king and double queen rooms available at a rate of \$124.00 per night.

Ted managed to get us grouped together under the "Bak Group" reservation. Get your credit card out and give them a call at the number listed above to make your reservation for Dayton/Xenia Hamvention lodging. Give them the dates for your stay, credit card number and some other info (to set up your account) and you should be all set.

I made my reservation on October 16, 2019 and it went very smooth. Call them and "Git 'er done".

<https://www.ihg.com/holidayinnexpress/hotels/us/en/dayton/dayml/hoteldetail>

Hope to see you there.

73 Gregg / N8GEO



Contests tend to elicit one of two reactions from hams.

Submitted by Carl / W8WZ

#1. Oh great! I can't wait to spend as much time as possible on the air with the biggest station I can put together and see how many points I can earn this year! I may even try and dehydrate myself so that I don't have to waste time with bathroom breaks.

Or

#2. Ugh, the bands will be all jammed up. I guess I'll spend the weekend doing yardwork.

There is a third way however. I call it "playing at contests" and this way can be a lot of fun for us casual operator types.

Let me start off by saying that I have nothing but respect for the real contesters. They demand the most performance possible from their stations and have spent years honing skills that will give them a competitive edge. Many have spent many dollars and many hours to compete at their maximum potential and their feats are amazing. Big contesters are among the most serious hams around and my hat is off to them. I am not one of them though. My operating style is much more casual and leads towards rag chews, NTS nets, and using lots of vintage gear.

However, that does not stop me from using contests to have fun. For each contest that I am going to participate in, I set a personal goal and use the contest to meet that goal.

Each Wednesday is the CW Operator's club mini test or CWT. I work the 8AM to 9AM Eastern timeslot and my goal each week is to see how many people I can work, then to look at the list and see how many of them I have met in person or had a rag chew with on the air. I never submit a log. That is a simple contest with a simple goal.

Last weekend was the ARRL DX CW contest, one of the biggest contests of the year. The goal of the contest is to learn about HF and MF propagation by contacting as many stations in other countries as possible during the contest period. American stations sent a signal report and their state. DX Sta-

tions sent a signal report and their power level. Americans only work DX stations during this contest. Hearing all the different states was helpful to judge propagation at a particular time and hearing the power level of the different DX stations was helpful to judge the impact that different power levels have from similarly distant locations.

I set two personal goals for myself during this contest. **#1.** I wanted to see how many different entities I could work during a 24-hour period. **#2.** I wanted to spend time on 80, 40, 20 and 15 meters at different times of day to observe the current state of propagation on those frequencies to hear if the bands truly are "dead" or not.

To start with, I checked my antenna and made sure that the markings on my tuner and amplifier for use on each band were accurate so that I could change bands more quickly. I use an 80 meter inverted V up 100 feet fed with ladder line for use on all bands with the help of my matching network. Then I brought one of my iPads into the shack. Since my shack does not have a computer, I used the iPad to look up the QRZ.com pages of the different stations I was working to confirm their locations as my knowledge of the various prefixes for all of the different countries is a bit rusty. Next, I used my old spiral bound ARRL logbook to log the contacts and a note pad to jot down each new entity as it was worked. A real contester would use a computer for all of that, but I don't enjoy that. So That was it. I was ready.!

I was "contest ready" when the bands lit up. And light up they did. Any talk that the bands are "dead" is very wrong. I can say that I worked DX for the entire contest weekend and that 20 meters was alive with wall to wall signals the entire time. 40 meters was alive except for the period of about noon to 3 pm each day when it slumped and only other Americans could be heard. 40 was so slow that at noon I actually had a 30-minute rag chew with a ham in Ohio on 7.028 in the middle of the contest and we were not interrupted at all and I did

(Continued on page 6)

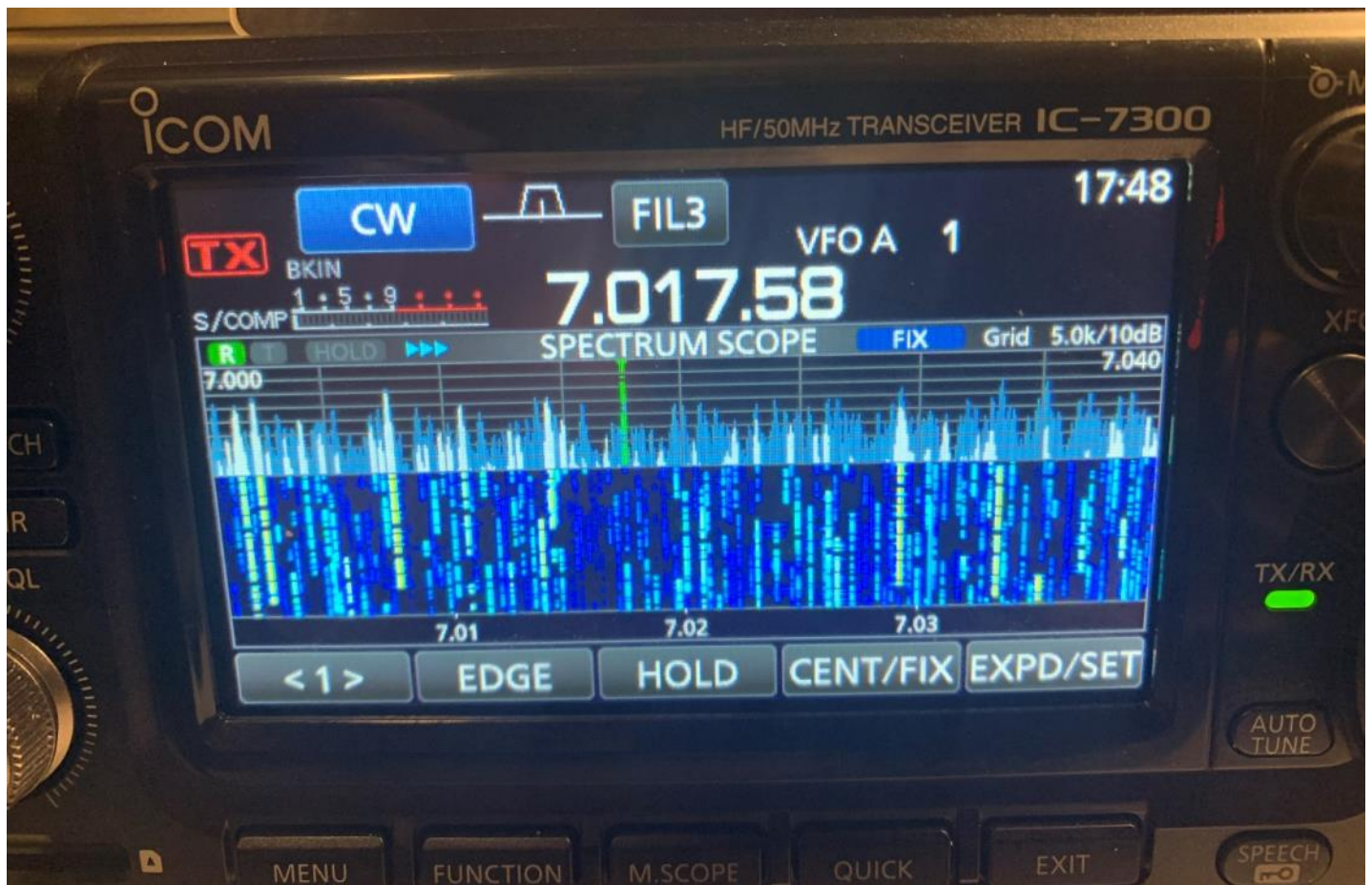
(Continued from page 5)

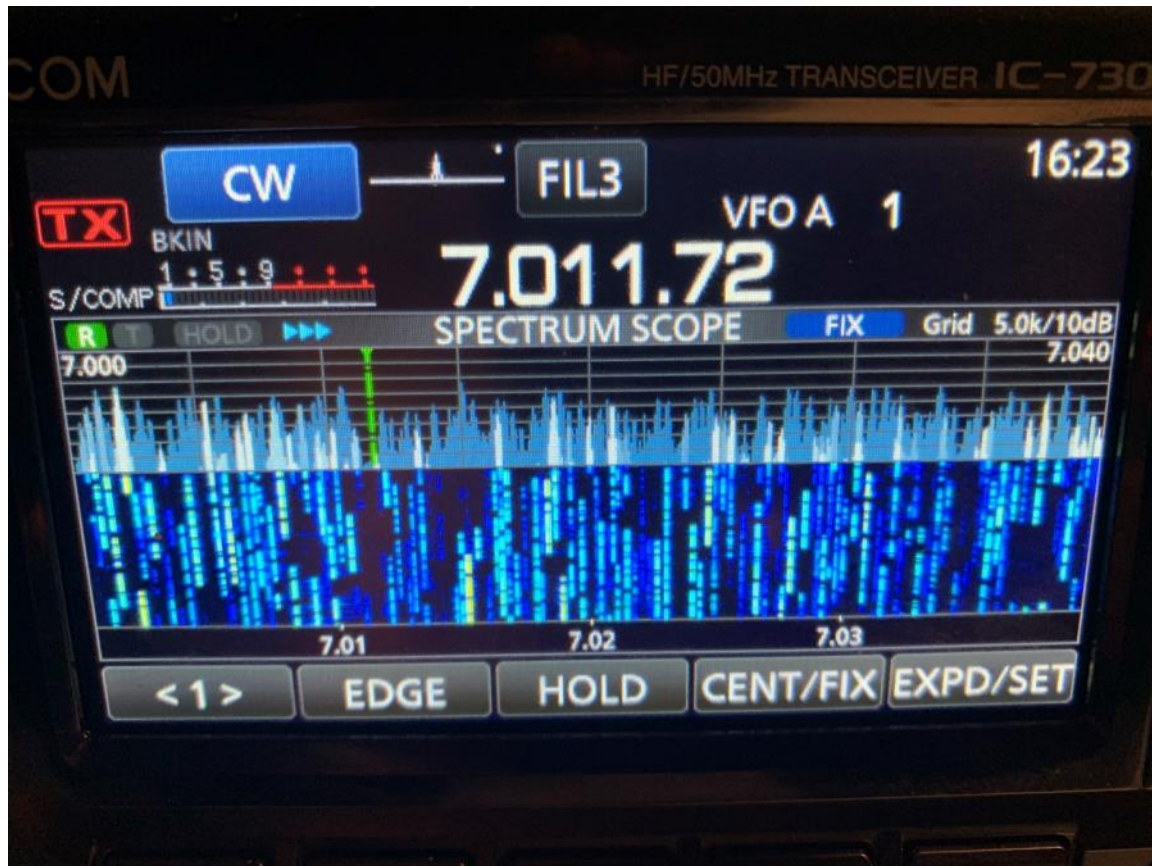
it with the 1.2Khz filter setting open the entire time! No DX on 40 from noon until about 2 but I enjoyed the rag chew with Cleveland. A real con-tester would have been up on 20 or 15 then. Life on 40 changed around 2 PM however and the band was gangbusters again. 80 meters was alive each time I checked during the evening and I made many several nice contacts on 80, taking time out to check into 2 traffic nets since I was on 80 any-way (something else a real tester would not do). 15 meters was full of South American and Caribbean stations all afternoon on Sunday. I stayed in the

bottom 25 KHz of that band and made about 50 contacts in the course of an hour which is a pretty good rate for me, with manual logging, etc. Since I hadn't worked that band yet I did not need to check for dupes before calling anyone so I could move quite fast.

Here are some pictures from the band scope on my Icom IC7300 that show how full the bands were. The time on the radio is set to Eastern Standard. These pictures are of 40 meters and all the other bands were equally as full.

(Continued on page 7)





(Continued on page 8)

(Continued from page 7)

By simply starting at the bottom of the band and tuning up until I heard a new country, then calling that station using the rig's built in keyer, I was able to work 34 countries in about 5 hours of operating spread over a 24-hour period. I made a total of just over 300 QSOs in total and used 80, 40, 20 and 15 meters. I learned that those bands are capable of producing worldwide communications even in the current sunspot cycle. 40 was especially wonderful with an S zero to S1 noise floor the entire weekend.

I did not work any rare DX and don't think I even worked any "new ones", but I did have a lot of fun and filled the logbook with several pages of legitimate DX.

Countries worked: Honduras, Cuba, Turks and Caicos, Canada, Croatia, Republic of North Macedonia, Germany, Slovenia, Ukraine, Czech Republic, Russia, Italy, Slovak Republic, Costa Rica, Spain, Poland, Ireland, Madeira Island, Indonesia, Serbia, Balearic Islands, Turkey, France, Portugal, Mexico, Curacao, Norway, Scotland, Finland, Canary Islands, St. Kitts and Nevis, Aruba, Brazil, and Argentina.

And every one of them gave me a 599 signal report! While a contest signal report cannot be relied upon for accuracy, I can say that every station I called answered me and only 3 out of more than 300 didn't answer me on my very first call. If they didn't answer me on my first call, I turned on the amp and called them with 500W and was then answered. Since I am not submitting a log to compete in the contest, changing my power level whenever I wanted to didn't matter to me. I only needed the amp for 3 of my QSOs, so 99% of those QSOs were made barefoot on the first call. That makes me feel confident that my antenna system is satisfactory to my needs.

Some countries had a lot more contacts than others. I worked a lot of hams in Slovenia, Slovak Republic, Czech Republic and Serbia. I also worked a lot of French and Italian stations. I think that these countries tend to have fairly high ham activity. I also work them frequently when rag chewing on 40

late at night so I think my antenna system might have some gain into those locales. The contest was helpful for me to learn more about my station.

Next year my goal will be to see if I can top 34 countries. Since I logged manually, I had to manually check for dupes before calling a station and then write down my contact information with the fountain pen in the log book. A real contesteer would be horrified by this glacial pace and have everything computerized. Also, when I got tired, I went to bed. When I got hungry, I went downstairs and fixed supper. I grilled a steak Saturday afternoon and took a nap after. When my phone rang, I turned off the radio and talked to the person calling me. When it was time for Church, I unplugged everything and went. These are behaviors that serious contesters avoid as they lower the QSO rate. But, I'm "playing at the contest" so I'm happy to do these things. I'm not even submitting a log because my log is spiral bound in my ARRL book and I have no desire to do data entry into a format to submit as that feels like work, and I don't care. If something in the hobby is not fun to me, I don't do it. But I still enjoy the contest, and so can you.

I encourage you to look at what contests are coming up and set personal goals for each of them. Maybe you want to get on the air for the NC QSO Party and just see how many different counties you can contact. Or maybe you want to see how many different bands you can use to make contacts around our state on that day. Maybe you want to make as many CW contacts, or SSB contacts as possible. Its ok to use contests to meet your own personal goals. You don't have to compete seriously to enjoy them. You don't even have to submit a log and you can take as many bathroom breaks as you want!

Editor's Comment: As many of you know I , ahem, dabble in contests regularly. If you operate a contest AND log with a computer, I encourage you to submit your log, If you don't want it scored, or you didn't follow all the contest rules, submit it as a check log.. It will help the log checking process. You never know, maybe confirmation of your contacts will make the difference in scores and affect the results in the leaders scores!



**Amateur
Radio
Club**

3rd Annual Technology Expo

Sunday - April 19, 2020

9:00 AM until 2:00 PM

**** UFCW Local 876 - 876 Horace Brown Dr. Madison Hts, MI 48071 ****

WW8GM - Talk-in 443.075 MHz + 123 Hz PL

ARRL VE Testing Session - 11:00 AM

Tables \$15.00 (in Advance) • \$20.00 (at the Door)

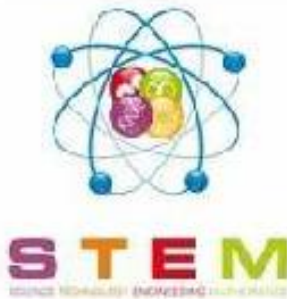
Tickets \$5.00 (At the Door)

GMARC Members (with Badge) are Admitted **FREE!**

NEW for VENDORS!

Vendor set-up time with paid admission

April 19th 6:30 AM - 9:00 AM



an ARRL Approved
Hamfest

E-Mail Address: Swap@gmarc.org

Phone: Dick Weir N8HG (248) 247-8006

OnLine Table Order: www.gmarc.org/

Note - VE Testing: Show up between 10 AM & 11 AM. Bring \$14.00 cash, photocopies of existing licenses or CSCEs (originals not accepted). Two pieces of ID are also required, one of which must have a photo. You must also provide either your Social Security number or FRN. Pre-registration is preferred but not required. Contact: Ron WD8MNX - wd8mnx@gmail.com.

Name _____ Call Sign _____

Address _____

City _____ State _____ Zip _____

Phone (_____) _____ E-Mail _____

Tickets _____ @ \$5.00 _____ Tables @ \$15.00 _____ Enclosed \$ _____

Mail to: GMARC Swap – 1816 Brookview Cir - Bloomfield Hills, MI 49304

TABLE RESERVATIONS MUST BE RECEIVED BY MARCH 31, 2020

ARROW Hamvention Bus Trip

Once again, it is that time of year when lots of hams around the world start thinking of the Dayton Hamvention. After all, with 28,000 attendees from all amateur radio interest areas, what's not to like! Don't you wish you were going? You're not looking forward to that long drive? Don't drive! Take the Arrow bus! It's inexpensive and easy. Even if you come from out of the Metro Detroit Area, you still relieve yourself of more than 8 hours of drive time!

<https://w8rp.org/activities/dayton-bus-trip/>

As in years past, The Arrow Communication Association is sponsoring a bus trip from Ann Arbor, Michigan to the Greene County Fairgrounds and Expo Center in Xenia, Ohio and back. The date is Saturday, May 16. We leave the park-and-ride at **5:00 am** (show up a bit earlier for free continental breakfast!) and get to the show at 9:00 am. We leave Xenia at 5:30 pm and arrive back to our large park-and-ride site by 9:30 pm. What more could you ask for?

We have had riders from both the Lower and Upper Peninsulas of Michigan and passengers from several areas of Ontario!

Please Note: We have kept our rate the same this year (\$55 before April 1 and \$65 on April 1 and after). **IT WILL GO UP NEXT YEAR!** You get the same deal (for the last time!) even though our bus rental rate has gone up every year from 2017 and onward.

Check out our YouTube video! <https://www.youtube.com/watch?v=j5p8mevKES4>

There is more. If you want to sell your stuff in the flea market, we have reserved a space there just for you! Every year, Arrow reserves a swap spot just for the bus trip crowd. You save \$70.00. All we ask is that you keep your items to a reasonable limit and that you volunteer at least one hour of your time at the swap tables.

The cost is \$55.00 for the round trip. (This increases to \$65.00 on or after April 1.) Please mail all applications to ARROW Communication Association, [2545 S. Lima Center Rd., Chelsea, MI 48118](#). **Please note that this does not include the Hamvention ticket.** That one you'll have to do yourself! You may also use the "dayton-bus-trip" [link below](#) to purchase a seat using **PayPal**.

We are trying to generate as much publicity as possible. Please share this information as widely as you are able. If you have a web page and/or a Facebook page, please consider adding a link to <https://w8rp.org/activities/dayton-bus-trip/>. Talk it up on the air! If you check into a state wide or regional net, please mention it there, also. Feel free to include us in your publications.

Also, click on our link to see all of our bus prize contributors of 2019. Our top gift in May of last year was a Begali Expedition Paddle. Digi Key Electronics was second with an Analog Devices PLUTO SDR Experimenter's Kit. And that was not all!

We at Arrow deeply appreciate your help in this matter and we thank you.

73,

John Wasciuk,

[W8TON](#) / VO1TON / VO1HV

Activities Coordinator, ARROW Communication Association www.w8rp.org

Ann Arbor, Michigan:

[jwasciuk at gmail dot com](mailto:jwasciuk@gmail.com) (616) 560-3365

Ann Arbor: Home of the University of Michigan Amateur Radio Club, [W8UM](#), Founded in 1913!



Future Programs & Activities

Scott Hernalsteen, W8CQD — Activities Manager

- March 4, 2020 Regular Meeting
- April 1, 2020 Regular Meeting
- April 18 & 19, 2020 [Michigan QSO Party](#)—N8LC operating at the Tucker Senior Center
- May 6, 2020 Regular Meeting
- May 15-17, 2020 “Dayton” [Hamvention](#) in Xenia, OH
- June 3, 2020 Regular Meeting followed by annual Fox Hunt
- June 27, 2020 ARRL Field Day
- 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@arri.net

VP and President-Elect

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

Secretary

To Be Determined
Will it be you?

Treasurer

Gregg Crump, N8GEO
29729 South River Rd
Harrison Twp, MI 48045-3030
(586) 477-0364
n8geo@arri.net

ARRL Liaison

Gregg Crump, N8GEO
29729 South River Rd
Harrison Twp, MI 48045-3030
(586) 477-0364
n8geo@arri.net

Activities Manager

Scott Hernalsteen, W8CQD
40202 Vincenzia Dr
Clinton Twp, MI 48038-4084
586-201-5713
w8cqd@arri.net

Past President

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

Technical Officer

Doug Chauvin, N8PYN
29112 Elmwood St.
St Clair Shores, MI 48082
(586) 775-1891
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 (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 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, 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, 734-930-6564.
Second Saturday of each month.

Hazel Park—Jerry Begel, W9NPI, 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

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.pdarrrl.org/k6rau/>

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

<http://morsecodemasters.com/train/er/Examples/hct.html>



Upcoming Swaps

03/14 & 15/2020 | [ARRL Great Lakes Division Convention](#)

Location: Perrysburg, OH

Type: ARRL Convention

Sponsor: ARRL

Website: <http://www.toledoglc.org/>

03/15/2020 | [Toledo Hamfest](#)

Location: Perrysburg, OH

Type: ARRL Convention

Sponsor: Toledo Mobile Radio Association

Website: <http://www.tmrhamradio.org/hamfest.php>

[Learn More](#)

04/11/2020 | [Crossroads Hamfest](#)

Location: Kalamazoo, MI

Type: ARRL Hamfest

Sponsor: Southern Michigan Amateur Radio Society

Website: <https://www.w8df.com>

04/19/2020 | [3rd Annual Technology Expo](#) (GM Club)

Location: Madison Heights, MI

Type: ARRL Hamfest

Sponsor: GM Amateur Radio Club

Website: <http://www.gmarc.org>

[Learn More](#)

05/02/2020 - [Cadillac Hamfest](#)

Location: Cadillac, MI

Type: ARRL Hamfest

Sponsor: Wexaukee Amateur Radio Club

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

[Learn More](#)

05/15/2020 | [2020 Dayton Hamvention](#)

Location: Xenia, OH

Type: ARRL Hamfest

Sponsor: Dayton Amateur Radio Association

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

06/07/2020 | [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](#)

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
					Clem, W8VO	1st Thursday
					Wayne, WG8U	2nd Thursday
Thursday	2030	2 M	FM	147.08+ MHz	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): _____

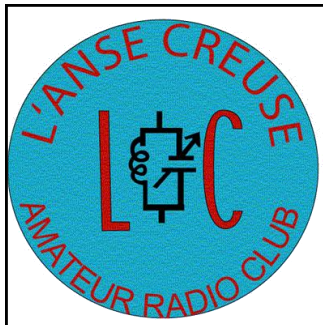
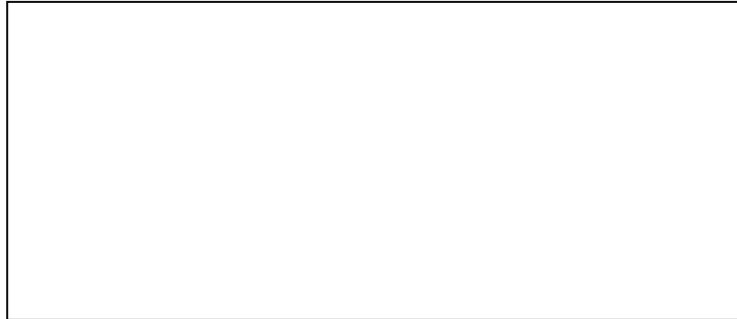
Phone: (_____) _____ - _____ Email Address: _____

(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

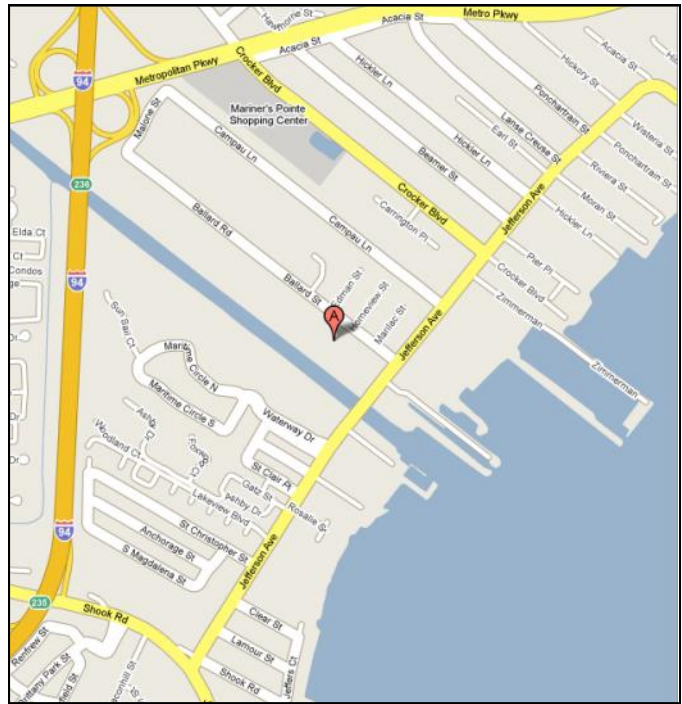
**Monthly Bulletin of the
L'Anse Creuse Amateur Radio Club**
29729 South River Rd
Harrison Twp, MI 48045-3030

First Class
Postage
+ Extra
Ounce



<http://www.n8lc.org>

E-mail: info@n8lc.org



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.