

THE TUNED CIRCUIT

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

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**June TC
Deadline:
Monday
May 27th**

Next Meeting - 7:00 PM May 1st
2019 at the Tucker Senior Center
(see [last page](#) for map and address).

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

The NEXT board meeting will be
on Wednesday, May 8th, 2019.

THE PREZ SEZ

This is a great time of year. The weather is getting better and Hamvention is only a few weeks away.

In last month's issue I showed an HT stand that I built, and gave some ideas for the plastic back. Fritz KE8BFW came up with the idea of using a piece of plastic cutting board, sold at the dollar store. Great idea to make the project cost even less.

This month I will focus on a antenna analyzer kit I built. [See the article in this month's newsletter](#). I will bring the analyzer to the meeting for those that want a closer look.

Kit building is another great part of the hobby. It is fun to have something you built come to life and function. Not so much fun when it will not work, but then it hones your troubleshooting skills. You also get an in depth knowledge of how the item works.

I was able to attend some swaps over the last few months and I think Toledo is one of the better swaps within a day trip from home. I was lucky to pick up a dual band DMR HT for \$20.00. What a buy, but it took some work to get it programmed. I had to hunt down the programming software and cable. One of the best parts is I tried making a programming cable which is easy to do. So not having the cable allowed me to learn about the cable pin outs, how the programming software works when using DMR, and setting up my Pi-Star Hot Spot.

I now have a working digital hot spot and DMR radio. If you have not checked into the technology it is another fun part of the hobby. A lot of great activity on the Nationwide DMR Talk Group.

So as we move into May try to attend Hamvention, build a kit, get outdoors, build, install, or tune up an antenna, and enjoy all the great parts of the hobby.

73

Ken - KD8RJN

**Fox Hunting
NOT this —>**



But
This



Trying to locate
THAT —>



Report of the Secretary

Submitted by Dave, N6WY

Meeting Called to Order:

The LCARC President (Ken, KD8RJN) called the 3 April 2019 LCARC general meeting to order at 7:00 PM. Roll Call. I counted a total of 21 people responding to roll call, including 1 guest. The guest's name is Lito Julian.

Dale, K8RO, invited Lito to the meeting and has known Lito for a few months. Dale told me that Lito was a ham back in the Philippines. His old call was DV8HR (someone else holds that call now). Lito actually comes from a ham family, as his father was also a ham. Lito passed his Technician Class and General Class exams the Monday before this LCARC general meeting. Lito informed Dale that he finally received his call KE8YLD on 12 April.

Meeting Minutes Approval. Meeting minutes as in the April Tuned Circuit News Letter were approved after a motion made by Chris, K8NVH, and seconded by Mike, N5WCS.

Where's Doug, N8PYN:

The 2nd Annual GMARC Technology Expo is 7 April 2019. This swap starts at 9:00 AM. Doug is encouraging others to meet around 7:30 AM for breakfast at Sero's on 12 Mile Road located near John R.

Repeater Status by Doug, N8PYN:

During the past month, no work was done on the repeater. Doug and others are planning to go to the repeater shack after the weekly Wednesday morning breakfast get-together held at the Ram's Horn Restaurant in Rochester Hills. The group will inspect the insulation and heat setting in the repeater shack.

There was no coordination with the Mi6WAN network people during the past month.

LCARC Swap Chairman Report by Russ, N8HAR:

Russ will be at the LCARC table during the 2nd Annual GMARC Technology Expo. He will be distributing flyers for the LCARC swap and selling raffle tickets for the LCARC radio raffle. Russ will also have the equipment that was donated to LCARC for sale at the GMARC event.

Membership and Tuned Circuit Report by John, N8FYL:

LCARC has 70 members.

Input for the Tuned Circuit deadline is 22 April.

Net Points Report from Clem, W8VO:

Chris, K8NVH, was awarded a net participation certificate for 50 net points.

Treasurer's Report:

Not available. [Editor: treasurer was not at the meeting.]

Old Business:

Michigan EIN. Ken, KD8RJN, researched the status of the LCARC Michigan State Tax Number (EIN) and found that it expired many years ago. Ken said that LCARC has no need for an EIN.

VEC Testing Dates. Ken, KD8RJN, will post the testing dates on Facebook and Craig's List.

Vets to Ham. Ken, KD8RJN, visited the Roseville VA center near 11 mile and Gratiot. He talked to the staff people about LCARC sponsoring a Vets to Ham Radio program. The staff said that they will check for interest in the program. For the Roseville VA center, Ken estimated that LCARC will need to provide one HotSpot and a few DMR radios.

Address for LCARC. The official address for LCARC is Gregg's, N8GEO, home address. The LCARC QSL address is Dale's, K8RO, home address. Dale has the option of keeping the QSL address the same or changing it to Gregg's home address.

(Continued on page 3)

(Continued from page 2)

Fox Hunt After Meeting. Ken, KD8RJN, has made reservations at Bentley's for the June "after the Fox Hunt" gathering.

SKYWARN Class. Debbie, KC8WHN, announced that she is attending the Macomb County SKYWARN class. She also encouraged members to support the monthly Macomb County storm warning siren testing. The monthly siren testing uses 147.200 MHz for reporting.

Tucker Center Storage Area. Gregg, N8GEO, is trying to get permission to place a lockable storage cabinet in the Tucker Center for storing LCARC items.

MI QSO Party. Gregg, N8GEO, obtained permission to use the Tucker Center for the Michigan QSO Party. With the warmer weather and extended daylight, kids will be using the park facility next to the Tucker Center. MI QSO participants must carefully locate antennas and feed lines so that no hazards are created.

Field Day. Gregg, N8GEO, will reserve the location at Addison Oaks for Field Day.

Event Signs. Scott, W8CQD, said that his wife, Veronica, is making decals for the blank event signs that LCARC purchased.

ARRL Library Book Set. Scott, W8CQD, contacted the Clinton - Macomb Library to see if they are interested in receiving the ARRL Library Book Set as a donation from LCARC. Scott was told by the person at the library that he needs to call back later. The ARRL Library Book Set includes popular ARRL publications, intended for clubs or individuals that wish to make a gift to a local library or school. The cost to LCARC for the ARRL book set is \$200.00. The purchase of the book set will be discussed at the next LCARC Board Meeting.

New Business:

Silent Key. Ralph, W8ROI, announced that Tony, K8PVW [not a club member but a frequent Friday breakfast participant. Editor] became a SK this week.

Show and Tell:

Bicycle Antenna and Radio Mount. Chris, K8NVH, showed his design of a VHF/UHF bicycle antenna. The antenna had a very low SWR on his bicycle. He also showed a clever way to mount a handheld radio on the bicycle using an old bicycle inner tube. The inner tube mount protects the radio from road/trail shock and vibration.

Desktop HT Holder. Ken, KD8RJN, showed his Desktop HT Holder. The details for making the holder are in the April *Tuned Circuit* Newsletter.

Meeting Adjourned:

Dale, K8RO, made the motion to adjourn the meeting and start the program. Debbie, KC8WHN, provided the second. The meeting adjourned at 7:50 PM.

Program:

Scott, W8CQD, showed a [video](#) about the differences between linear and switching power supplies.

Drawings:

Winner	Prize	Winner	Prize
Cathy, KC8WNL	\$20.00 (50/50)	Mike, N5WCS	Volt Meter
Keith, W8KD	Wire Cutters	Chris, KR1NGL	Solder
Debbie, KC8WHN	Heat Shrink Tubing	Dennis KE8FZX	Volt Meter
Chris, KR1NGL	Baofeng Radios		

MAY 1ST MEETING PROGRAM

The May program will be a video presentation about DMR/DSTAR/C4FM hotspots from the [HamRadioConcepts](#) YouTube channel.



MEETING time is 7:00 PM



WANTED!

Presenters for the club!

Scott D. Hernalsteen/W8CQD

I am looking for people who are willing to share some of their expertise with the club at a meeting. Ideally, this would be expertise related to ham radio!

The kinds of subjects I think would be interesting:

- Basic Soldering
- Using an oscilloscope
- Going bicycle mobile
- Alternate power sources for radios
- Setting up a Raspberry Pi

Any subject you know about that could be related to ham radio would be welcome!

Contact [Scott/W8CQD](#) to get on the schedule!

That's all for now, thanks! Scott/W8CQD

Membership Report

No membership changes in the past month. Thus the member count is 70, of which 9 are Life members. Of the 59 regular members, and 6 are enjoying the first year free experience.

John / N8FYL — 4/23/19



The Antenna Analyzer One of the Best Tools a Ham Can Have

By Ken / KD8RJN

This month's Show and Tell is a kit built antenna analyzer. I like to build things so when I read the information on kits from Fox Delta I was interested in what they had to offer.

<http://www.foxdelta.com/>

I have an MFJ antenna analyzer but the screen only shows the SWR of the frequency you are tuned to and will not show SWR mapping of the total antenna.

Fox Delta offered what I consider a very reasonably priced kit with all the hard work done with the surface mount part soldered. I like kits that come with the case and this one has a nice metal one.

The device is small about the size of a small HT radio. It will work with you computer, laptop, or your smart phone using Bluetooth. Calibration is easy using a paperclip.



Even if you are not into kit building the assembled price of \$5.00 more is very fair. When I purchased mine I was told if you are senior citizen they will assemble it for free. I could not find that info on the web site now, but they are good at responding to emails so you can ask if interested. I am also not sure what they consider a senior citizen but I definitely qualify.

Here is a good link to all the functionality this little device can do.

<https://rsars.files.wordpress.com/2013/01/the-fox-delta-antenna-analyzer-fd-aaz-0912-iss-1-3a.pdf>

Everything you need to look at is at this link, instructions, parts list, FAQ, software and ordering info.

Scan though the links and I think you will see the value for the dollar.

<http://www.foxdelta.com/products/aaz-0217.htm>

(Continued on page 6)

(Continued from page 5)

I ordered two of the antenna analyzer kits. I was building one for me and one for a friend. The company is in India but shipping time was about 10 days.

The kits are nicely laid out and parts are individually bagged. The directions are online so if you buy something it would be good to print out the directions and review them while you are waiting for your kit to arrive. This way you can jump right in with a good understanding of what you are doing.

I will say the directions are a little confusing but maybe that was because my first one did not work when complete. So you blame the instructions instead of the builder, right? HiHi

Having a kit that will not work when done is frustrating but it is also a learning opportunity. It also gives you a good idea of the company you are dealing with.

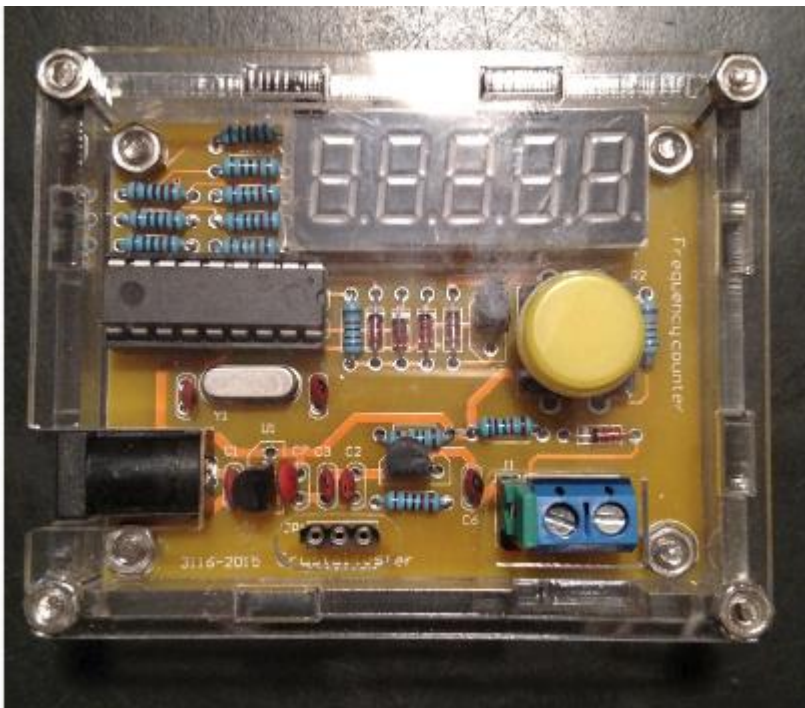
I finished the kit, checked all the voltage points and all was good. I had all the proper lights and everything checked out, but my computer would not recognize the USB device.

After a few days of rechecking every solder joint under a magnifying glass I contacted the company via email. Wow a response the same day!

The email stated they thought the crystal was bad and would send me a new one. They shipped me a new crystal and some additional parts that could also be an issue with the USB clocking. They shipped the parts for free including shipping.

As timing would have it I was going to a swap that weekend and saw a kit for a crystal checker. I picked one up and it was a quick build. I checked my crystal and it was dead. I took the crystal out of the second analyzer kit and checked it. It was right at specs. I swapped it in for the dead one and the built kit worked great.

The crystal Checker kit that helped me fix the analyzer:



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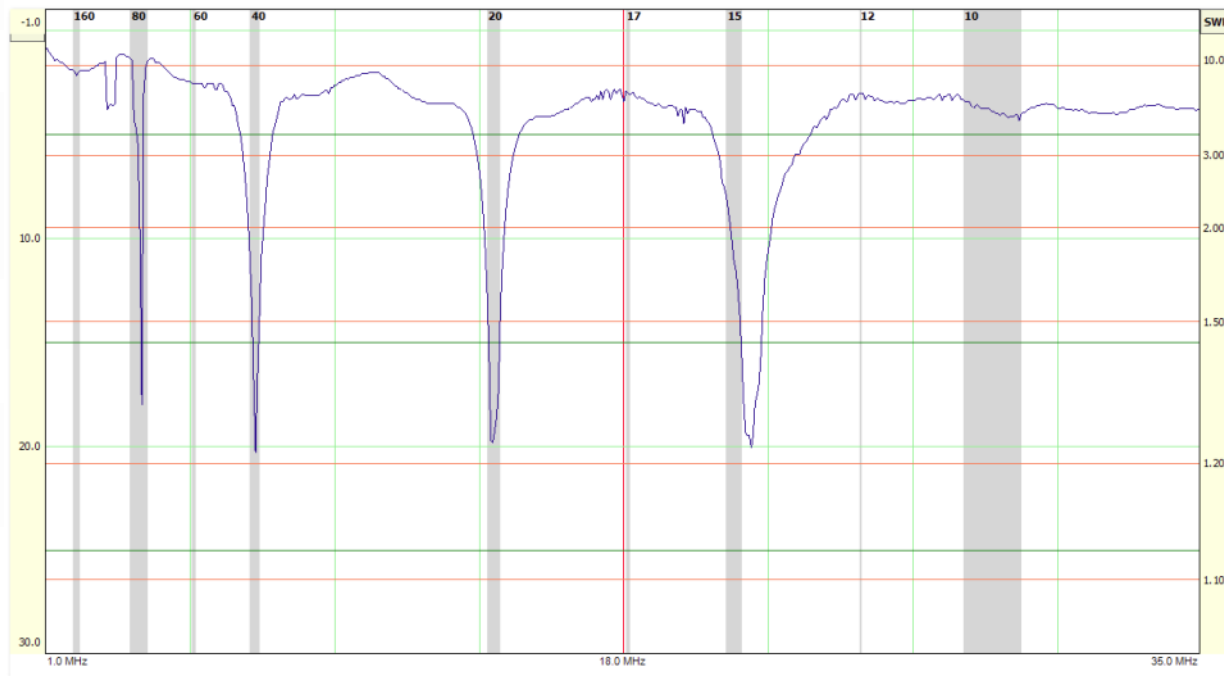
(Continued from page 6)

How accurate is the analyzer?

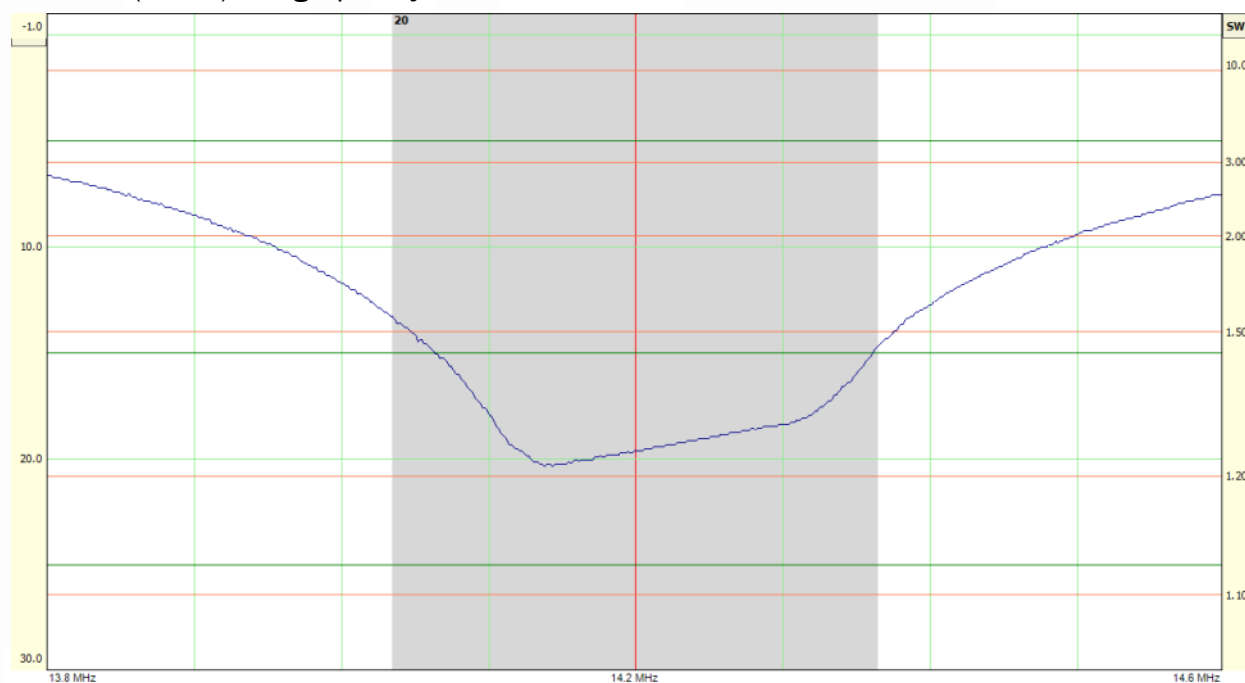
I would say as good as any factory-built device I have used. I ran a comparison test to my MFJ analyzer, and they were within 0.1 of each other for SWR.

I have only used the analyzer kit for SWR and tuning my antennas, but there is so much more this little device can do. I like the screens and the ability to see the SWR on all bands of my vertical, or just one band. You can display the data as graph or create a table.

Below is a graph of my vertical showing SWR on all the bands:



And here (below) is a graph of just the 20 Meter band on the same antenna:



(Continued from page 7)

Here is a portion of the 20 Meter band using the table to see the SWR:

Scan Table #0

Freq	SWR	RL dB	Row#
14,180,770	1.24	19.5	304
14,182,190	1.24	19.5	305
14,183,600	1.24	19.5	306
14,185,020	1.24	19.5	307
14,186,440	1.24	19.5	308
14,187,850	1.24	19.4	309
14,189,270	1.24	19.4	310
14,190,690	1.24	19.4	311
14,192,100	1.24	19.4	312
14,193,520	1.24	19.4	313
14,194,940	1.24	19.4	314
14,196,360	1.24	19.3	315

Clear Close ☐ OnTop ☒ Clear at Start Step: 1,4

The graphics are clean and easy to understand. The analyzer is just fun to play with and see how your antenna is working and what parts need to be tuned.

The Last Word

I have to give this company and the kit two thumbs up. The kit is easy to build, easy to use, accurate and the company is responsive and willing to help you with any issue. I consider this a must have in every ham toolkit.

What are other Hams saying? I would say they agree: <https://www.eham.net/reviews/detail/12047>
I will bring the set up to the May club meeting and a mag mount antenna to show some live examples for those interested.

I hope this will get you into building this kit or any kit. This is another great part of the hobby.

73

Ken – KD8RJN

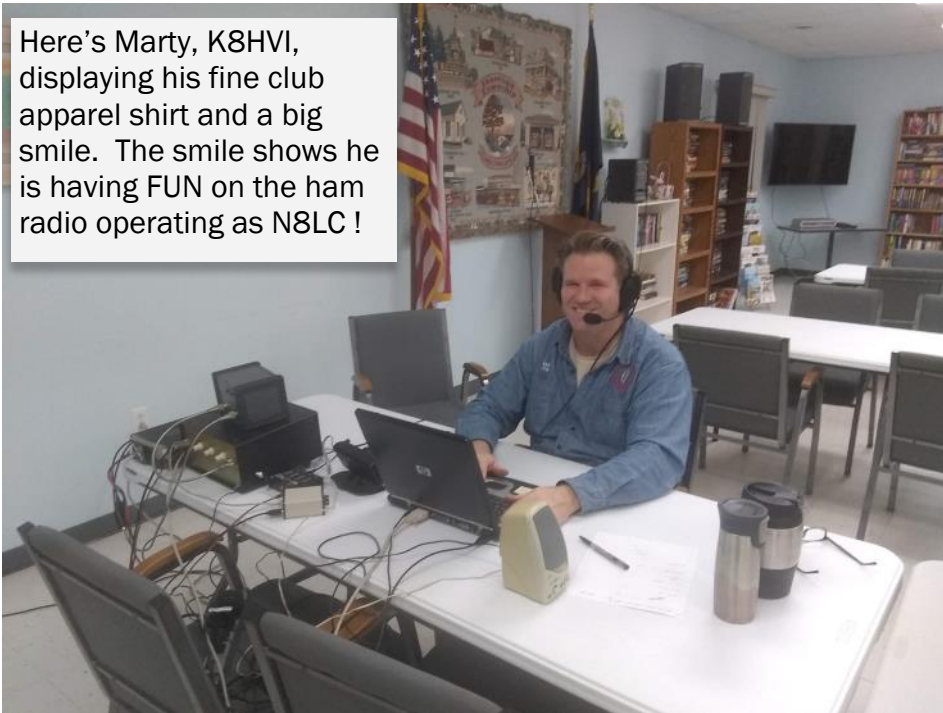


The club is still planning to operate at the perennial Field Day site at [Addison Oaks County Park](#). Mark your calendars to reserve some time for the 2019 Field Day activities on the FOURTH full weekend of June, June 22nd – 23rd. There should be more information at the May meeting.



The MI QSO party aficionados showed up at the Tucker Senior Center on April 20th and put N8LC on the air for the [Michigan QSO Party](#). The following club members are known to have been there: N8GEO Gregg, N8PYN Doug, K8HVI Marty, KD8LLT Matt, KE8FZX Dennis, K8ZEC John, K8NVH Chris, N8AT Henry, N5WCS Mike, and W8CQD Scott, and a few non-member guests. Below are two views of K8HVI's station setup. Perhaps there will be more pictures in the May issues. - Your Editor

Here's Marty, K8HVI, displaying his fine club apparel shirt and a big smile. The smile shows he is having FUN on the ham radio operating as N8LC !



According to the log, Marty contributed 91 contacts to the groups total of 233 contacts (all SSB). Matt/KD8LLT made 64, Doug/N8PYN 48, and guest Carl/N8AE 30.

The crew worked 48 Michigan counties, and 31 other states for 79 multipliers which generates a claimed score of 18407 ([currently good for 3rd place](#) in Multi Op Multi-Xmtr class).

Band breakdown is: 80M—151, 40M—79, and 20M—3.

Here's the view from the operating side of the table. Left to right: Laptop, TS-480 control head, Tigertronics Signalink (the little beige box behind the TS-480 head), antenna tuner with watt meter on top, and the TS-480 RF deck. Under Marty's foot is a foot switch for PTT, thus keeping both hands free for typing. The laptop is running the N3FJP MIQSO logging software AND providing the voice keyer function to the Kenwood TS-480.



Don't let your brain waste away as you get older...

Exercise it with a new Morse code platform on <https://morseDX.com> that includes

- Letters & Numbers [[Use it forever at no cost](#)]
- Common Words
- Sentences
- Hollywood Film Lines
- Q-Signals
- Books & Novels, and
- Code Drill [[Can you get a perfect score?](#)]

Designed for both beginners and experienced brass pounders.

EYES OFF so you can be doing other things at the same time.

Runs on all smartphones, tablets, and desktop computers. Nothing to install — runs on your browser.

Any CW operator will tell you that Morse code works your brain and keeps you sharp!

Innovation by <https://morseDX.com> — a MorseFusion website

[This is NOT an endorsement. I thought this web site might be of interest to someone aspiring to learn CW. Editor John / N8FYL]

The Muskegon Area Amateur Radio Council, [W8ZHO](#) is located in the Lake Michigan coastal community of Muskegon. We enjoy five acres and a clubhouse with towers and antennas on the shore of Lake Michigan. Our club dates to before WWII is affiliated with the ARRL, and is a tax-exempt 501(c)3 charity. In an effort to support our efforts to promote our hobby of amateur radio we are having a raffle, a HF/6-meter transceiver. The Icom 7300 SDR transceiver that has only been out of its box a handful of times. The radio will be raffled at our club's Field Day site, June 22, 2019. Raffle tickets are \$5. Raffle tickets available through PayPal for \$6 (the extra dollar helps cover PayPal expenses and postage) Please use PayPal for your ticket request using our email address, maarc@w8zho.com We will snail mail your ticket stub. Raffle tickets will also be available at the Cadillac and Hudsonville Hamfests in Western Michigan. The winner need not be present to win. We printed 500 raffle tickets. The State of Michigan license number is R51613.

ICOM 7300

SDR - HF/50 mHz Radio

Raffle benefits: Muskegon Area Amateur
Radio Council, W8ZHO

Nearly new

Icom 7300 HF/50 mHz Transceiver

500 Tickets Available at **\$5.00** per ticket

See any MAARC member

or

Tickets available for **\$6.00*** per ticket through PayPal (maarc@w8zho.com)

*to cover PayPal processing fees & postage

Lic. No. R51613

Drawing in Muskegon, MI, 2:00 pm,

Field Day, June 22, 2019

Winter Field Day results

Submitted by Gregg / N8GEO

Here are the results of Winter Field Day. We did pretty good.

We were:

- 1st place in **MI** for our 3I Category (LOL we were the only one in our category)
- 2nd place overall for **MI** in the **Indoor** category.
- 8th place (for the **Indoor** category—109 entries).
- 27th place for the whole contest (combining all categories, Indoor, Outdoor and Home = 802 entries)



Go out to the Winter Field Day site and take a look at all of the results.

<https://www.winterfieldday.com/2019-results>

73 Gregg / N8GEO

Editor: FYI Winter Field Day 2020 is already posted on the website for January 25/26.



Here we observe an intrepid Winter Field Day operator entering hibernation until it is time for the next Field Day. Or maybe he will awake for MIQP? HiHi

Future Programs & Activities

Scott Hernalsteen, W8CQD — Activities Manager

May 1, 2019 Regular Meeting

May 17-19, 2019 (Dayton) [Hamvention](#)

June 5, 2019 Regular Meeting followed by annual Fox Hunt

June 22/23, 2019 ARRL Field Day

September 4, 2019 Regular Meeting to start the 2019-2020 year!

October 2, 2019 Regular Meeting

November 6, 2019 Regular Meeting—Last chance to review 2019 Swap plans

L'Anse Creuse ARC Board Members – 2019

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



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	Debbie John	KC8WHN 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

May 20 (Monday), and August
19(Monday), 2019 at the Tucker Senior
Center. December 1, 2019 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 the Mt.
Clemens Elk's Lodge at 7 pm

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](http://morsecodemasters.com/train
er/Examples/hct.html)

Upcoming Swaps

05/04/2019 | [Cadillac Hamfest](#)

Location: Cadillac, MI

Type: ARRL Hamfest

Sponsor: Wexauke Amateur Radio Club

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

[Learn More](#)

05/17/2019 | [2019 ARRL National Convention at Dayton Hamvention®](#)

Location: Xenia, OH

Type: ARRL Convention

Sponsor: Dayton Amateur Radio Association

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

[Learn More](#)

06/02/2019 | [Chelsea Amateur Radio Swapmeet](#)

Location: Chelsea, MI

Type: Hamfest

Sponsor: Chelsea Amateur Radio Club

Website: <http://wd8iel.com>

[Learn More](#)

06/16/2019 | [Monroe Hamfest](#)

Location: Monroe, MI

Type: ARRL Hamfest

Sponsor: Monroe County radio Comm Assoc

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

[Learn More](#)

07/20/2019 | [Gladwin Area Ham Fest](#)

Location: Gladwin, MI

Type: ARRL Hamfest

Sponsor: Gladwin Area Amateur Radio Club

[Learn More](#)

09/07/2019 | [CMARC Hamfest](#)

Location: Okemos , MI

Type: ARRL Hamfest

Sponsor: Central Michigan Amature Radio Club

Website: <http://centralmiarc.com>

[Learn More](#)

09/08/2019 | [Findlay Hamfest](#)

Location: Findlay, OH

Type: ARRL Hamfest

Sponsor: Findlay Radio Club

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

[Learn More](#)



L'Anse Creuse Amateur Radio Club Nets

Day	Time		Band	Mode	Frequency	Net Control	Calendar
	UTC	EST					
Monday	0000	2000	15 M	CW	21.165 MHz	Clem, W8VO	Every Monday
Monday	0030	2030	15 M	USB	21.395 MHz	Wayne, WG8U	Every Monday
Monday	0100	2100	6 M	USB	50.160 MHz	Gregg, N8GEO	Every Monday
Tuesday	0000	2000	2 M	Packet	144.93 MHz	TBD	Every Tuesday (Connect to detqso)
Thursday	2330	1930	10 M	USB	28.435 MHz	Clem, W8VO	Every Thursday
Thursday	0030	2030	2 M	FM	147.08+ MHz	Clem, W8VO	1st Thursday
						Wayne, WG8U	2nd Thursday
						Gregg, N8GEO	3rd Thursday
						TBD	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)

☐ \$5.00 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.)

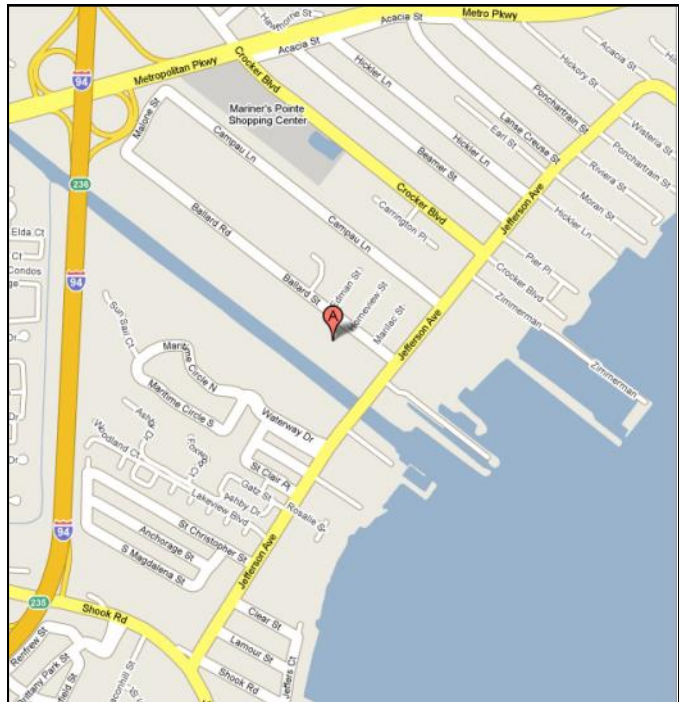
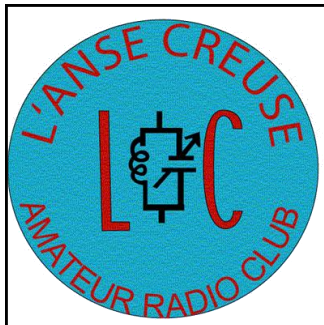
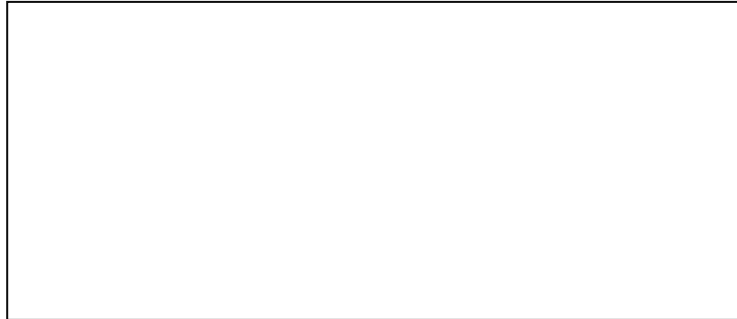
The Tuned Circuit

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

LCARC Web Site: <http://www.n8lc.org>

E-mail: info@n8lc.org

First Class
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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.