

THE TUNED CIRCUIT

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

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**September TC
Deadline:
Monday
August 26th**

Next Meeting - 7:00 PM June 5th 2019 at the Tucker Senior Center (see [last page](#) for map and address).

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

The NEXT board meeting will be on Wednesday, Sept 11th, 2019.

THE PREZ SEZ

The calendar says spring is here and summer is around the corner but Mother Nature is not following the calendar. As I write this I am getting ready to head to Hamvention. I have attended the last few years and always have a great time. I come home with things I am not sure why I purchased, but always find a use for them later.

As June will be our last club meeting for a few months, we discussed the summer at the May board meeting.

One item we would like to keep going is the monthly dinners. The May dinner is set for May 21st at Ike's. At the evening out we will pick a member to decide where to go in June. Watch the reflector or notices from John/N8FYL as to where the next one will be.

The next board meeting will be the second Wednesday of September, so everyone gets the summer off to enjoy time with family and radio.

At the September General meeting on the first Wednesday of the month we would like to have our start with our pot luck picnic. At our June meeting we can discuss the details, but we will need someone to be our main cook for the hot dogs and we will need a grill. The club provides the main portion of the meal and member provide the side dishes. Think about what you want to bring and we can plan this out at the June meeting.

Good things happened in May. We provided a generous amount of funding for the Youth Forum at Hamvention and we will be purchasing two sets of ARRL Library Sets for donation. Promoting the hobby, mainly with young people, is prime objective.

I have been getting more involved in DMR radio and enjoy the talk groups. The discussion on the Nationwide Talk Group reminds me of old school ham radio. A lot of discussion on how to configure the radios and Raspberry Pi's. Nice to hear hams helping other hams along with talking about the weather.

Hope to see you at the June meeting and Fox Hunt with dinner at Bentley's directly after.

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 1 May 2019 LCARC general meeting to order at 7:00 PM. Roll Call. I counted a total of 22 people responding to roll call.

Meeting Minutes Approval. Meeting minutes as in the May Tuned Circuit News Letter were approved after a motion made by Dale, K8RO, and seconded by Don, WN8IZV.

Where's Doug, N8PYN:

The 2019 Hamvention will be held May 17, 18 and 19 in Xenia, OH at the Greene County Fairgrounds and Expo Center. Doug will not be there. Free admission on Sunday 19 May.

Repeater Status by Doug, N8PYN:

A small group went to the repeater site and found no problems. No explanation of the increased heating bill for the repeater shack. Cathy, KC8WNL, suggested that we use some of Ken's, KD8RJN, surplus Styrofoam insulation at the repeater shack.

Currently, there is no Wi-Fi in the repeater shack.

Ken, will contact the Mi6WAN network people.

Treasurer's Report by Gregg, N8GEO:

Total amount in the account is \$4630.34.

The Youth Fund has \$224.24.

The Repeater Fund has \$599.42.

A check from the radio raffle in the amount of \$1290.00 is expected soon. This amount will be added to the total amount in the account.

Net Points Report from Clem, W8VO:

Name	Points	Name	Points	Name	Points	Name	Points
Wayne WG8U	6263	Tom WU8C	4822	Clem W8VO	3250	John N8FYL	1654

Membership and Tuned Circuit Report by John, N8FYL:

LCARC has 61 regular members and 9 life members.

Input for the Tuned Circuit deadline is 27 May.

QSL Report by Dale, K8RO:

Dale had 43 requests for QSLs. One request was a card. The majority of the requests were the result of the MI QSO Party event. Dale had 2 call signs that could not be confirmed. One request was from 2015.

Winter Field Day Results by Gregg, N8GEO:

First place for the MI 3I Category.

Second place for the MI indoor category.

Eighth place for the overall indoor category out of 109 entries.

Twenty-seventh place for the whole contest out of all categories that included indoor, outdoor and home.

A total of 802 entries.

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Old Business:

Youth Forum Support. LCARC is again providing support to the Hamvention Youth Forum. Ralph, W8ROI, usually buys \$400.00 of gift cards and the amount is matched by MFJ Enterprises. Ralph uses the Youth Fund Account balance that is mentioned in the treasurer's report and the club members authorize the use of general funds to reimburse Ralph for the purchase of \$400.00 gift cards. Cathy, KC8WNL, said that we need to vote on reimbursing Ralph tonight. Mike, N5WCS, made the motion to use the Youth Fund Account and up to \$150.00 from the general fund to reimburse Ralph. The motion was seconded by John, N8FYL. The motion passed.

ARRL Library Book Set. Last month Scott, W8CQD, talked about LCARC purchasing the ARRL Library Book Set for a donation to the Clinton - Macomb Library. Scott has confirmed that the Clinton - Macomb Library really wants the ARRL Library Book Set (without the ARRL map). The ARRL Library Book Set gives the Clinton - Macomb Library lots of material they don't currently have and allows the library to upgrade a couple of books they do have. This month Vince, WA8BIJ, has donated \$200.00 to LCARC for purchasing the ARRL Library Book Set that is to be donated to a library. Cathy, KC8WNL, suggested that with Vince's donation, LCARC should donate to two libraries. All members present agreed that LCARC should buy two ARRL Library Book Sets for donation. The second library to receive the donation is to be determined. Dale, K8RO, wants to know how often an LCARC donated book is checked out of the Clinton - Macomb Library in a year. Based on the number of times a LCARC donated book is checked out, LCARC can determine if the club should buy the next year's ARRL Library Book Set.

Vets to Ham. Ken, KD8RJN, is going to meet with the Roseville VA center staff to determine interest in having a demonstration to the Vets about amateur radio and how to become a licensed operator.

Hamvention News. Gregg, N8GEO, said that he is no longer holding rooms for club members at the Holiday Inn in Centerville. The ARROW Radio Club in Ann Arbor has a bus for a one day round trip to the Hamvention.

After Fox Hunt Gathering. Ken, KD8RJN, has confirmed the Bentley's reservation.

MI QSO Party Report by Gregg, N8GEO. The LCARC operated from the Tucker Center for MI QSO Party. Operating style was similar to WFD except the MI QSO Party was only 12 hours. Marty, K8HVI arrived early and had antennas ready for operation. A total of about 15 people participated. All participants had a relaxing day and plenty to eat. Two stations were operational and LCARC scored over 18,000 points. The two stations had some idle time; need more operators.

Signs for Field Day and Swap. Veronica (Scott, W8CQD, wife) is making the signs.

VE Test Sessions. Ken, KD8RJN, wanted to clarify the start time for LCARC VE testing. All LCARC VE test sessions start at 6:30 PM. The Monday after the Hamvention is the next VE test session.

LCARC Swap News. Russ, N8HAR, has the 2019 Swap Flyers. The Swap Raffle Radio will be purchased this month at the Hamvention.

New Business:

General Information. Ken, KD8RJN, showed a mailer from hamandhifi.com. No one had information about hamandhifi.com. Ken also had information from a QST advertisement that the 38th Annual ARRL and TAPR Digital Communications Conference will be held this September 20-22 in Detroit, MI.

Field Day Site. Gregg, N8GEO, said that the field day site is not locked down but that is not a problem. Gregg said that he can get a solid reservation for the field day site this month.

Program Presenters. Scott, W8CQD, needs program presenters for general meeting presentations.

Storm Warning Siren Testing. Debbie, KC8WHN, encouraged everyone to participate in the monthly siren testing that occurs on the first Saturday of every month.

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Drawings:

Winner	Prize	Winner	Prize
Cathy, KC8WNK	\$16.50 (50/50 prize)	Dennis, AC8JH	Digital volt/amp meter
Scott, W8CQD	Baofeng Radios	John, N8FYL	Digital volt/amp meter

Meeting Adjournment: Ken, KD8RJN, called for motions to adjourn the meeting at 8:05 PM. Fritz, KE8BFW, provided the first and Mike, N5WCS, provided the second.

Program:

Scott, W8CQD, showed an introductory video about [DMR/DSTAR/C4FM hotspots](#) from the [HamRadioConcepts](#) YouTube channel.

Show and Tell:

Ken, KD8RJN, demonstrated his antenna analyzer that he built from a kit. See Ken's article in the May Tuned Circuit.

JUNE 5TH MEETING PROGRAM

The June program will be a brief meeting followed by the annual Fox (hidden transmitter) Hunt. The hunt results and rehashing will occur at [Bentley's Roadhouse, 28410 South River Road, Harrison Twp.](#)



MEETING time is 7:00 PM



The 30 day deadline for log submission for the 2019 [Michigan QSO Party](#) has passed. No official results have been posted, but according to the [logs received by score page](#) N8LC is securely in 4th place (out of 5 entries) in the Multi-Op Multi-Xmtr class. The gap to 3rd is large (4.6 times the N8LC claimed score), compared to other years where N8LC was within a few contacts or multipliers of placing higher. In the Fixed Single Op Low power class, N8FYL appears in 4th place. Now we wait about 11 months for the 2020 MIQP on April 18, 2020.

Membership Report

We welcome new member Lito, [KE8LYD](#) to the club!. The member count is 71, of which 9 are Life members. Of the 60 regular members, and 6 are enjoying the first year free experience.

John / N8FYL – 5/28/19



Board Meeting Minutes

Submitted by Dave, N6WY

Meeting Called to Order:

The LCARC Board Meeting was called to order at 7:00 PM on Wednesday 8 May 2019 by the LCARC President.

Attendees:

President, Ken – KD8RJN	Secretary, Dave – N6WY	Cathy–KC8WNK
Vice President, Scott – W8CQD	Technical Officer, Doug – N8PYN	Jenny Vandecar
Treasurer, Gregg – N8GEO	Past President, Debbie – KC8WHN	

General Comments:

Ken, KD8RJN. LCARC is going to spend funds for Youth Forum and ARRL Library Books as approved during the May general meeting. Ken will bring the LCARC banner holder that he made to Hamvention.

Cathy, KC8WNK. The June general meeting is going to be a short meeting because of the fox hunt. No pop is needed at the June meeting. The fox hunt has two categories; doppler and non-doppler.

Debbie, KC8WHN. Last year we did not have a picnic for the September general meeting. Are we going to have a picnic for this year's September general meeting? At the June general meeting, we need to discuss and decide about a picnic for the September general meeting.

Gregg, N8GEO. The Field Day location is set and a check for \$500 will be mailed to pay for the cost of the location. Gregg has received and deposited the radio raffle check from Knights of Columbus. LCARC can sell radio raffle tickets in another state. Radio raffle tickets will be available for sale by LCARC at the Hamvention. Gregg has deposited the check from Vince/WA8BIJ for the purchase of another set of ARRL Library Books.

General Discussion:

Swap Entry Fee. Other local radio clubs have raised the entry fee to their swap. LCARC swap entry fee is still at \$5.00.

Repeater Issues. Doug, N8PYN, reported that the repeater computer failed. Dale, K8RO, replaced the computer. The repeater computer operating system was upgraded to Windows 10. The electric bill for the repeater shack is still high. Gregg, N8GEO, needs to bring past electric bills to the general meeting or board meeting for review and see if DTE has extra unknown charges or a mistake in billing. A few years ago, Doug cancelled the high reliability charge.

Repeater Controller. Gregg, N8GEO, wants to add a repeater controller to the VHF repeater. Doug, N8PYN, will do the research for a repeater controller. Doug will find out the type of controller the GMARC added to their VHF repeater. Doug will set the UHF repeater to digital only and the VHF repeater to FM analog only.

Meeting Adjourned:

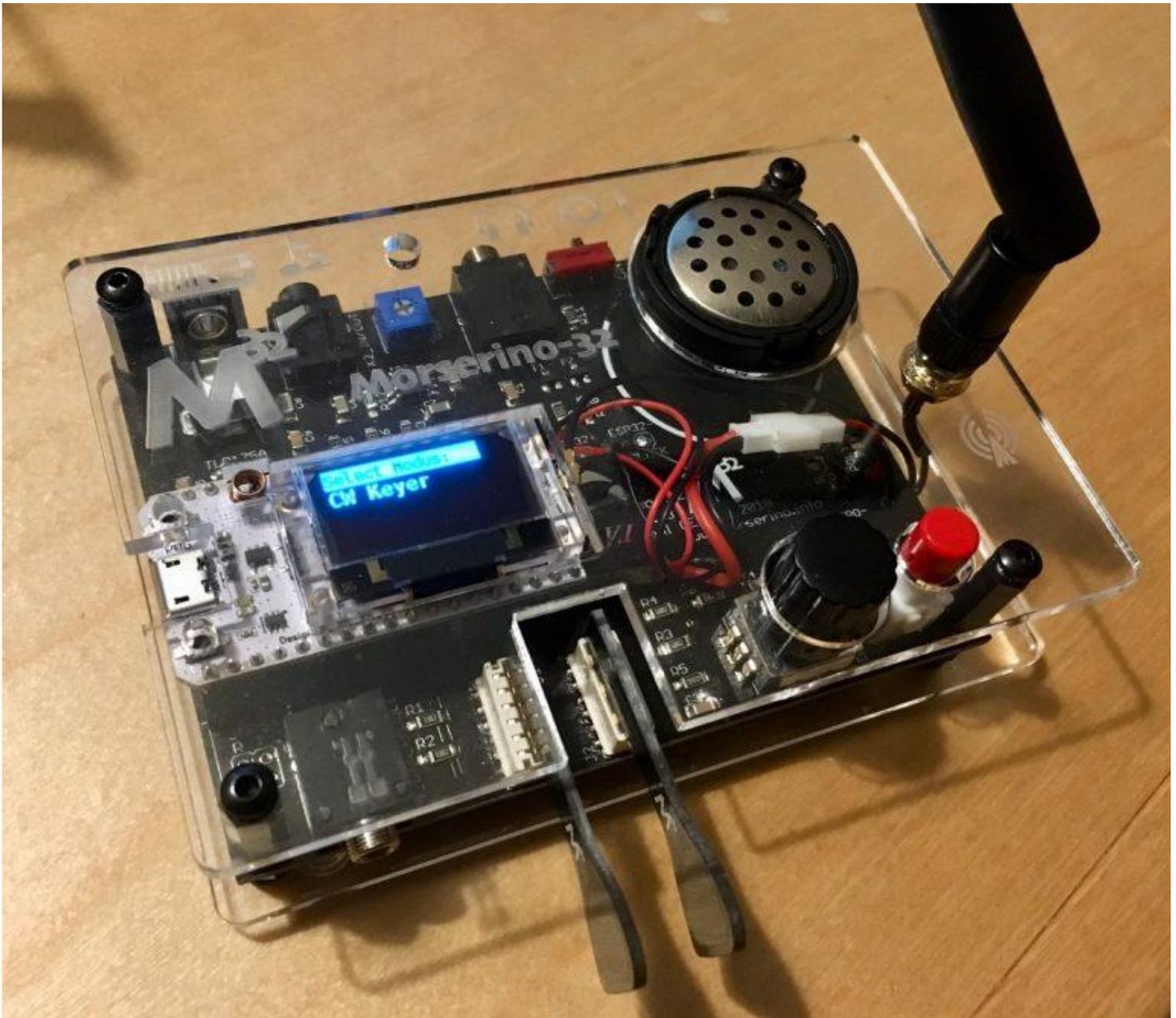
Ken adjourned the meeting around 8:00 PM.

Learning about batteries

By Dan Romanchik, KB6NU

I often say that getting an amateur radio license is as much getting a license to learn as it is getting a license to operate on the amateur radio bands. Lately, I've been learning about batteries, LiPo batteries to be exact.

It all started when I purchased a Morserino (<http://morserino.info/>). The Morserino is a Morse Code learning aid that has a number of unique features. For example, in addition to helping you learn the characters, it's also supposed to help you learn how to copy in your head. It also has a built-in touch keyer function, and a LoRa interface that lets you send and receive code from other Morserino units.



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I'll be writing more about the Morserino in a future column, but let's get back to batteries. The kit did not come with a battery. Instead, it was suggested that one purchase a 600 mAh LiPo battery commonly used for powering drones. I found [this battery](#) on Amazon, and purchased a six pack of them, thinking that I'd find uses for the other five in some project or another.



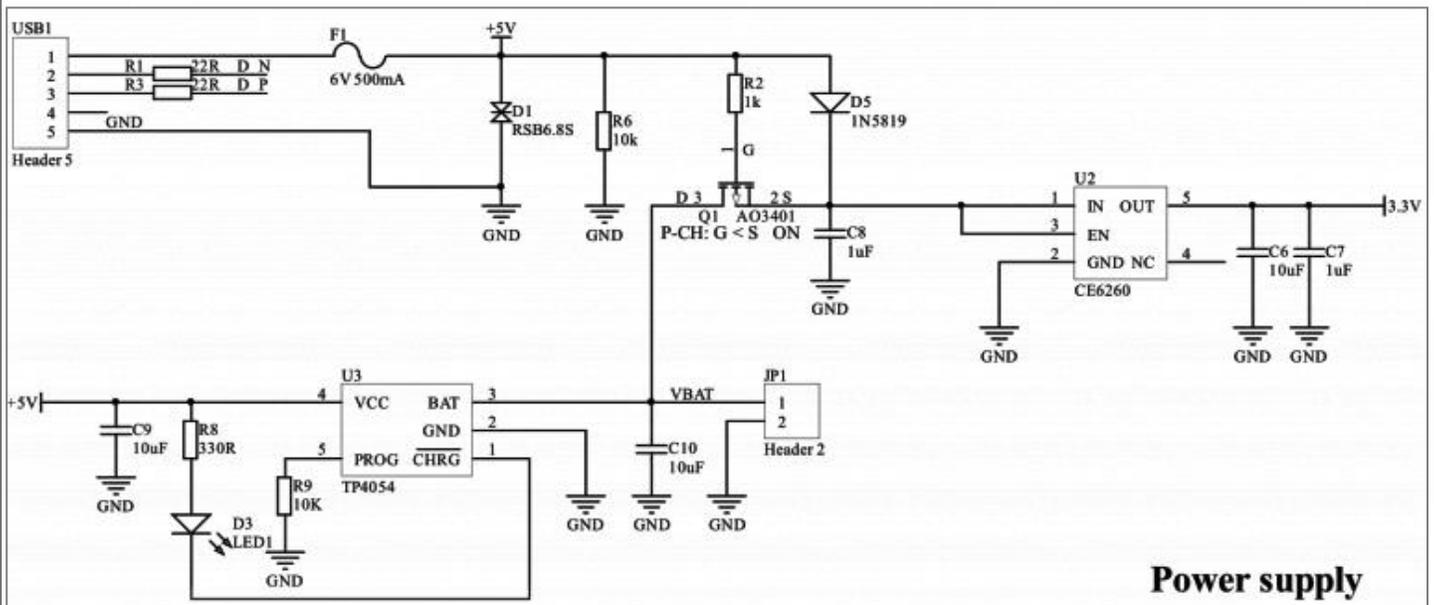
Well, sooner than expected, I did find another application for one of the batteries. I'm building a little Arduino project for a client, and I reckon that this, or one with more capacity, will make a great power source for the project.

Now, I have two immediate challenges:

1. Figure out how to charge the battery.
2. Figure out how to connect it to the Arduino.

On the Morserino, the battery plugs directly into a connector on the bottom of the computer board (the white board with the LED display). I knew that connecting the 5V line from the USB connector directly to the battery was a no-no, but I'd lent out the Morserino to a friend, and I didn't have the schematics for the board. So, how they managed to charge the battery from the USB port was a bit of a mystery.

I emailed Willi, OE1WKL, the designer of the Morserino, and he sent me a wealth of information. There actually is a battery-management IC, the TP4054, on the board:



He also gave me the part number for the battery's mating connector. He said, "The mating connector for the Molex connector on the battery is a Molex 51006. It is sometimes referred to by vendors as 51005 female, but 51005 is the connector on the battery." You can, of course, buy pre-made cable assemblies on Amazon (<https://www.amazon.com/gp/product/B07P54QTR8>).

You can also buy lithium battery charging modules (<https://www.amazon.com/gp/product/B01LZSC7I8>). These modules have a TP4056 on them, which is similar to the TP4054. It's amazing to me that you can purchase ten of these things for less than seven bucks.

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So, that's where I'm at right now. Once I get the modules and cables, I'm going to hook it all up and get the Arduino system running from the battery. The next step will be to integrate a small solar panel and run the whole thing from solar power, hopefully.

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Dan Romanchik, KB6NU, is the author of the KB6NU amateur radio blog (KB6NU.Com), the "No Nonsense" amateur radio license study guides (KB6NU.Com/study-guides/), and one of the hosts of the No Nonsense Amateur Radio Podcast (NoNonsenseAmateurRadio.Com). He often wonders if he can learn things fast enough.

2019 TAPR Digital Conference in MICHIGAN!

From the [ARRL MI Section Manager Report](#) & www.tapr.org



Mark your calendars now for the 38th Annual ARRL and TAPR Digital Communications Conference, September 20th through 22nd being held at the Detroit Metro Airport Marriott Hotel. The conference schedule includes technical and introductory forums, demonstrations, a Saturday evening banquet and an in-depth Sunday seminar. This conference is for everyone with an interest in digital communications – beginner to expert!

Information is online at www.tapr.org/dcc.

The ARRL and TAPR Digital Communications Conference is an international forum for radio amateurs to meet, publish their work, and present new ideas and techniques. Presenters and attendees will have the opportunity to exchange ideas and learn about recent hardware and software advances, theories, experimental results, and practical applications.

Topics include, but are not limited to: Software Defined Radio (SDR), digital voice, digital satellite communications, Global Position System (GPS), precision timing, Automatic Packet Reporting System™ (APRS), short messaging (a mode of APRS), Digital Signal Processing (DSP), HF digital modes, Internet interoperability with Amateur Radio networks, spread spectrum, IEEE 802.11 and other Part 15 license-exempt systems adaptable for Amateur Radio, using TCP/IP networking over Amateur Radio, mesh and peer to peer wireless networking, emergency and Homeland Defense backup digital communications, using Linux in Amateur Radio, updates on AX.25 and other wireless networking protocols.

Send a positive message to the organizers that Michigan is the place to hold these conferences!



The board meeting minutes, claim we should have secured our perennial Field Day operating site at [Addison Oaks County Park](#) by now. N8LC is noted on the [ARRL Field Day Locator](#), and Field Day aficionados are making their plans. Mark your calendars to reserve some time for the 2019 Field Day activities on the FOURTH full weekend of June, June 22nd – 23rd. FD is a great opportunity to experience some HF & VHF operating (SSB, CW, and maybe FT8 or PSK or RTTY digital modes) if you don't happen to have that capability at home. Listen for more information at the June meeting.

ZENER DIODES

By Ralph/WDOEJA and submitted by Clem/W8VO

The last article was about conventional diodes. There are many applications for various types of diodes. What they have in common are that they are made up of only two materials, a P (+) and a N (-) material. Depending on the composition, a diode can be made to do a variety of functions.

The Zener diode. These have been used for a long time. They are very affective in regulating voltage.

How does it work? Again, you can get as complicated as you want, but I am not up to that.

A diode allows current to flow in one direction only. A zener will do the same. However, if you use a zener in the reverse direction, it will not conduct current until you reach a specified voltage, then it will avalanche in conductivity.

Therefore, if you have a zener rated at 7 volts. It will not conduct current until you reach 7 volts. It will maintain the 7 volts very steady.

This is also a reason zeners are rated not only in voltage, but wattage. When the zener conducts it can not exceed the power of the diode. A 1 watt diode rated at 7 volts can not exceed .14 amps. Therefore, your circuit design can not exceed this current because the zener will offer close to a short (near 0 ohms) when regulating.

Zeners are available from 1/4 watt to 50 watts. They come in a large variety of voltages. You can use two in series to obtain a higher regulating voltage. If you have a 7 volt and a 5 volt in series, they can be used as a 12 volt regulator.

Keep in mind that zeners regulate by shorting the circuit. Therefore, the circuit design has to be able to handle the short and so does the zener.

Common applications are regulating biasing voltages for amplifiers. It is common to see zeners in linear amplifiers for regulating the needed bias.

Zeners can be used in voltage dividers, transient protection (spark plug noise) and RF clamping to prevent over load of a sensitive RF amplifier.

If you want to try out a zener or want to know the unknown value, it is quite easy.

Connect a zener in series with a 1,000 ohm resistor. Apply a reverse bias. One lead to the zener and one to the resistor. Use a variable DC power supply. Measure the voltage across the zener only. You will see the voltage increase to the value of the zener and no more.

Zeners are a small inexpensive device with a large variety of applications.

73, Ralph WDOEJA

Setting PC Time with No Internet

If you want/need to accurately set the time of a PC when you have no internet access (like for FT8 at Field Day), you might check out [BKT Time Sync by IZ2BKT](#). According to Bob/[N7WY](#), "It can be used with a \$15 or so GlobalSat GPS RX on a cable plugged into a USB port. The GlobalSat device is pretty sensitive, it may even work in your basement. The app also does NTP sync". IZ2BKT also has a smart phone app, [BktTimeSyncPhone](#), that synchronizes the PC time using the smartphone GPS connected to the PC via Bluetooth.

I haven't tried any of this, but thought it was information worth sharing. John / N8FYL

Hara Arena damaged by Tornado!

In case you missed the news, on Monday (Memorial Day) May 27, 2019, an EF-3 tornado blew through Trotwood, Ohio. It looks like it made a direct hit on the former, long time, home of the Dayton Hamvention. Click the image to see some drone video of the Hara Arena tornado damage. Even the ARRL had a [news story](#) about the storms and the damage to Hara.



**FOR
SALE**

By Dave K8GTV
(586) 939-9144

National HR050T receiver with speaker and 4 sets of band coils
Kachina 505DSP last fired up 2 years ago. Needs Windows 95.
[Heathkit TX-1 ??] Apache Transmitter last fired up 2 years ago.

Probably blew the finals.

Very heavy. Modulator blew with a bang around 1959.

Will reassemble into enclosure if interested.

OR will trade for a fully functional all band HF transceiver
GAP Titan Vertical multi-band antenna with tripod, guys, 10' pole.
(Already taken off roof.)

LOOKING for: 40 Meter mini-beam and rotor and short tower.

2019 Mind Over Matter Bike Event

Please mark your calendar for the [Mind Over Matter Bicycle event](#). The date is Saturday, August 3, 2019 from approximately 7 AM until noon. The location will be Lake St. Clair Metro Park (formerly known as Metro Beach), [Par 3 Shelter](#) (New location for 2019). Radio operators are needed to help ensure a safe and enjoyable experience for all participants. The event features three routes:

- 1) The 2.5 to 5.0 mile route stays on the bike path in Lake St. Clair Metropark.
- 2) The 23 mile route ventures on the bike path out of Lake St. Clair Metropark to the Freedom Hill Loop in Sterling Heights and back.
- 3) The 43 mile route is for the more AVID cyclist, riding along Lake St. Clair Metropark to Windmill Pointe Park (Grosse Pointe) and back.

The event is capped off with lunch and an awards ceremony. I am looking for radio operators for the following positions:

- Net Control
- SAG Vehicle
- Bicycle mobile
- Fixed position at either a water stop or at a major intersection.

Please let me know if you can help.

Bob George, KB8QYJ

KB8QYJ@ARRL.net



Future Programs & Activities

Scott Hernalsteen, W8CQD — Activities Manager

- | | |
|-------------------|---|
| June 5, 2019 | Regular Meeting followed by annual Fox Hunt |
| June 22/23, 2019 | ARRL Field Day— N8LC will be at Addison Oaks County Park, as usual! |
| 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 |
| December 1, 2019 | L'Anse Creuse Swap! |
| December 4, 2019 | Regular Meeting — Elections |
| December 11, 2019 | Annual Christmas Party/Dinner |

L'Anse Creuse ARC Board Members – 2019

President

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

Treasurer

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

Past President

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

VP and President-Elect

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

ARRL Liaison

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

Technical Officer

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

Secretary

Dave Garner, N6WY
 56312 Summit Dr
 Shelby Twp, MI 48316-5855
 (586) 677-3858
n6wy@arri.net

Activities Manager

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



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	KC8WVK	Net Points Upgrade Awards	Clem Duval	W8VO
Club Apparel & Patches	Scott Hernalsteen	W8CQD	TC Postal Distribution	John Huber	N8FYL
Club Call Trustee - N8LC	Marty Folz	K8HVI	Outgoing QSL Manager	Dale McGorman	K8RO
Code Proficiency Awards	Vince Cuker	WA8BIJ	QSL Cards	Dale McGorman	K8RO
Dayton Trip	Gregg Crump	N8GEO	Swap Chairman	Russ Price	N8HAR
Door Prizes—Buyer	Doug Chauvin	N8PYN	<i>Tuned Circuit</i> Editor	John Huber	N8FYL
Door Prizes—Tickets	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

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>



Upcoming Swaps

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](#)

07/20/2019 | [GMARC Trunk Swap](#)

Location: Packard Proving Grounds,
49965 Van Dyke Avenue, Shelby Township, MI

Type: Trunk Swap

Sponsor: General Motors Amateur Radio Club

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

08/11/2019 | [Seaway Trunk Swap](#)

Location: [5 Water St. Port Huron, MI 48060](#)

Type: Trunk Swap

Sponsor: Eastern Michigan Amateur Radio Club

Website: www.emarc.us

[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](#)

09/15/2019 | [Adrian Hamfest](#)

Location: Adrian, MI

Type: ARRL Hamfest

Sponsor: Adrian Amateur Radio Club

Website: <http://w8tqe.com>

[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
						Clem, W8VO	1st Thursday
						Wayne, WG8U	2nd Thursday
Thursday	0030	2030	2 M	FM	147.08+ MHz	Gregg, N8GEO	3rd Thursday
						TBD	4th Thursday
						Fritz, KE8BFW	5th Thursday

Membership Request

Date: ___/___/_____

Request For:

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

\$30.00 LCARC Family Membership

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

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

\$5.00 Club Badge created with my Name and Call sign

Please update my membership information because it has changed.

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

Name: _____ City: _____ State: _____

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

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

(Please indicate your name above even if it hasn't changed, so we know who's giving us money and can mark that you've paid in our records.)

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

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

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

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

Class License (Circle One)

Novice Technician Tech+
General Advanced Extra

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

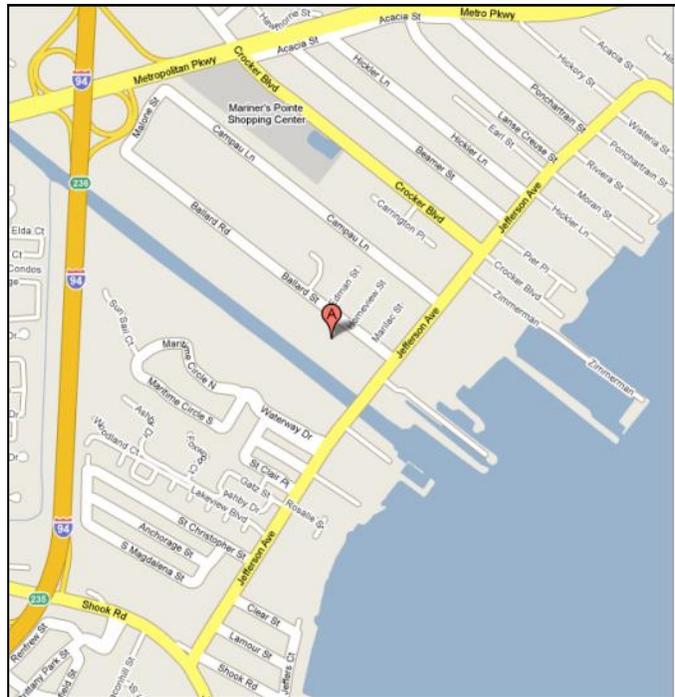
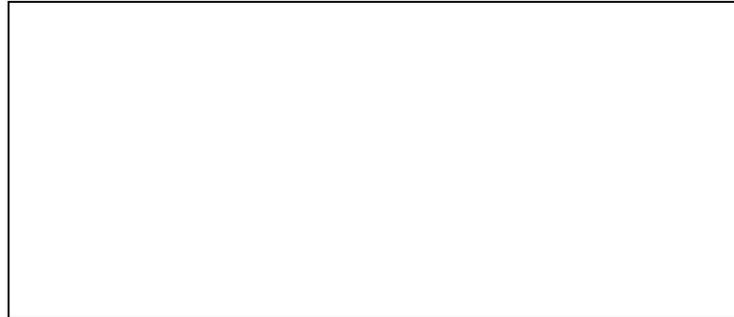
The Tuned Circuit

Monthly Bulletin of the
L'Anse Creuse Amateur Radio Club

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

E-mail: info@n8lc.org

First Class
Postage
+ Extra
Ounce



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](https://www.google.com/maps/place/26980+Ballard+St,+Harrison+Twp,+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.