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**IMPORTANT DATES  
2021**

- March 22—General Meeting. TBD.
- April 12—Board Meeting
- April 17—Michigan QSO
- April 18—World Amateur Radio Day
- April 26—General Meeting
- May 8—LARC in the Park TBD.

**UP FRONT**

◆ The next General Membership Meeting is scheduled for this Monday, March 22<sup>nd</sup>, via ZOOM. You will be notified by email about sign-in instructions. **There's a pre-meeting discussion at 6:30 pm, with the meeting beginning at 7:00 pm. Topic TBD.**

◆ Please tune into our Saturday Breakfast Net beginning at 8:00 am each Saturday morning. Dr. Jerry Custer, N8DXZ, will serve as moderator, on the K8UNS Repeater. **We'd like to hear more participation. Please try to drop in, even for a short "Hi."**

◆ We are in need of a couple Net Control operators for our Thursday 2-meter Net Call-Ins, due to work commitments with a couple of our regular volunteers. We are also looking for topics for our weekly net discussions. If you have ideas for topic, or wish to control the net, please contact Net Manager, Hiro, AD8AE at [ad8ae@arrl.net](mailto:ad8ae@arrl.net).

◆ LARC in the Park resumed on March 13<sup>th</sup> at the Livonia Police Department. Keith Mavin, KE8AUO and Brian Moen, K8MOE, presented their Go-Boxes. Those who attended heard ideas and alternatives that could make for interesting communications in less than perfect conditions. The next LitP is scheduled for April 17<sup>th</sup> in conjunction with the Michigan QSO.

◆ This year's Michigan QSO Event will be on Saturday, April 17. Refer to Page 11 for more information.

◆ Besides the Michigan QSO Event, April is a very busy month for QSOs across the country and Canada. Check out the listings on pages 8 and 9 to find events from Florida to Ontario and New Mexico. Lots of chances to get on the air. There are a some state parks on the air, also.

## YOUR FRIEND, THE VOLTAGE REGULATOR BY CHRIS WARREN

An old concept.

The voltage regulator has been around since the days of the vacuum tube. Modern radios are especially dependent on them. What are they, and why do they matter? In electronics, current can and does vary but voltage usually does not, or should not. Radios generally do not like voltages that swing all over the place. How do we control the chaos of varying voltage from common off grid power sources such as solar panels, batteries, wind turbines, and so on?

Voltage regulators to the rescue!

Luckily, the voltage regulator provides a steady, stable output voltage when the source voltage varies or is different from what the load requires. Having a basic understanding of these devices and the terminology related to them is useful when operating off grid systems.

**As a radio amateur, you're already using** voltage regulators: They are in your power supply. The guts of an average modern radio probably has dozens of them. A solar controller is just a glorified voltage regulator. Solid state semiconductors replaced glass tube regulators decades ago. Without the humble voltage regulator, modern radio equipment would not be possible. Voltage regulators are sometimes referred to by the generic term *DC-DC converter*.

There are two basic type of voltage regulators: Linear and switching. They each have pros and cons but in general linear regulators **are less desirable. We'll explain why in a moment.**

The linear voltage regulator.

Linear voltage regulators work on the **principle of Ohm's Law. They take an input voltage** and via resistance drop it to the desired output voltage. These types of devices are also called *buck converters*. The difference, or dropped power, is dissipated as heat. As you can probably guess, this is not very efficient. Some applications will waste more energy than they actually provide as an output.

On the plus side, linear voltage regulators are cheap, as in *really* cheap. Amazon will sell you a 15-pack of the hugely popular LM7812 for just \$6.00, which makes them less than \$0.50 each. Also, liners' have simple design **requirements. You don't need a lot of external** components or a lot of money to make effective DIY devices.

Linear voltage regulators are a good choice for low current applications (such as driving an LED or charging small batteries), when component cost is a factor, when the difference between the input and output voltage is not large, or when circuit simplicity is desired.

The switching voltage regulator.

Switching regulators work by switching the source power on and off as it flows through a capacitor-inductor network that temporarily stores electrical energy. When the device is in the **"on" state, the network is charging. When it is in the "off" state, the network discharges.** Therefore, the switching voltage regulator can supply constant voltage even though it is powered on only part of the time.

The switching function is performed by a transistor responding to feedback from the output. Feedback will increase or decrease the on-off cycle according to the load. The greater the load, the faster it needs to cycle to keep recharging the capacitor-inductor. This system is much, much more efficient than the linear voltage regulator.

While linear regulators can only reduce or step down (buck) a source voltage, switchers can be configured to increase or step up voltage. These are referred to as *boost* regulators. There are even switching regulators that can step voltage both up or down. These are called *buck-boost* regulators.

There are some disadvantages to switching regulators. First, they are more expensive than linears. Depending on what you want to do, expect to pay from a few dollars up to over \$20.

*(Continued on page 4, Voltage Regulators)*

## REVISITING THE WAYNE COUNTY REPEATER CRAWL

*Editor's Note: I have had a couple requests to re-publish information on joining the Friday evening "Repeater Crawl," coordinated by Keith Armitage, KD8ZSK.*

*Listed are some of the original procedures, along with changes that have occurred over the months.*

**Here's a way to keep in touch with local Amateur radio enthusiasts while the Stay-at-Home order is in effect.** Join us on Friday evenings for a *Wayne County Repeater Crawl*. BYOB. BYOR. As long as people play, the Crawls will continue each Friday evening.

How it Began:

- Someone acting as Net Control (NCS) declares Round Table, or Rag Chew, or Net to order at 7:00 PM
- Check-ins are taken
- Brief rag chews are enjoyed.
- NCS announces Next Repeater destination and provides frequency, PL, and locale.

Original Rotation Proposal:

1. 443.075 123 RenCen, Detroit (GM)
2. .640 100 Oak Park IRLP 4520 W8HP
3. 442.275 107.2 Romulus W8TX
4. 443.100 82.5 Northville AllStar 45504 W8DAR
5. 145.330 100 DTE Detroit W8DAR
6. 442.100 107.2 Detroit
7. 51.84 Detroit K8PLW (6m)
8. 443.475 88.5 Detroit WR8DAR
9. 442.800 107.2 Dearborn WR8DAR
10. 145.270 100 Dearborn—TinLizzy\_FORD ARL-K8UTT

11. 147.24 100 Wyandotte WY8DOT
12. 147.160 100 Dearborn WR8DAR
13. 145.350 100 Livonia K8UNS
14. 146.860 100 Garden City K8GC
15. 146.760 100 Detroit KE8HR
16. 443.150 107.2 Westland

### How it's Working Now:

Many suggestions and changes have helped the Repeater Crawl grow to a popular event including:

- Simplex stops, UHF, VHF, 6M, and 2M-USB.
- Reaching out to repeaters in neighboring countries; Livingston, Macomb, Monroe, Oakland and Washtenaw. Also Windsor, Ontario.
- Shortening the list to just ten stops each week so we are closer to a one-hour event.
- Maintaining a live log with call signs, name and locations.
- Changes to the rotation schedule each week
- Collecting Repeater Signal Strength at each station.

The feedback from amateurs has been very good, many have reported that the Crawl has helped them with getting to know their radios, making antenna changes, power changes, learning of new repeaters and trying new bands & modes.

The Repeater Crawl starts at 7:00 PM each Friday on the GM ARC repeater at 443.075, PL 123. The Crawl list is published in advance each week in an online spreadsheet that is date coded for each week at <https://tinyurl.com/RepeaterCrawl>.

## HOW TO MEASURE WIRE LENGTH BY DAN ROMANCHIK, KB8NU

A [recent post](#) on the reddit [/r/amateurradio](#), got me to thinking about a better way to measure wire length here in my shack. I've been using one of two methods:

**Laying the wire on my basement floor, where I've marked off different lengths.**

Going out into the backyard and measuring the length using a 100-ft. measuring reel.

**These two methods work OK because I don't do it that often, but recently a friend wanted 100-ft. of RG-8X off the 1000-ft spool I purchased from DX Engineering a couple years ago.** It was too cold and snowy out in the backyard, so I had to measure multiple short lengths down in my basement. That was a real pain in the butt. It took me more than a half hour to measure the coax

and then coil it up for my friend.

That reddit post stirred up that bad memory, so I decided to see if there was something out there that could make my life easier. Of course, the first thing I did was to search on Amazon.

The first thing that I found was the [Olympic 1410 Cordage Measurer](#).

**This is what the pros use. If you've ever purchased wire or rope at a hardware store, chances are this is what they used to measure your purchase.** This is a great device, but it costs \$450!



Olympic 1410

*(Continued on page 5, Wire)*

*(Voltage Regulators, Continued from page 2)*

Second, switchers are more technically complex and require more external components. Lastly, the switching sequence has the potential to create noise in your radio.

Voltage regulators in the ham shack.

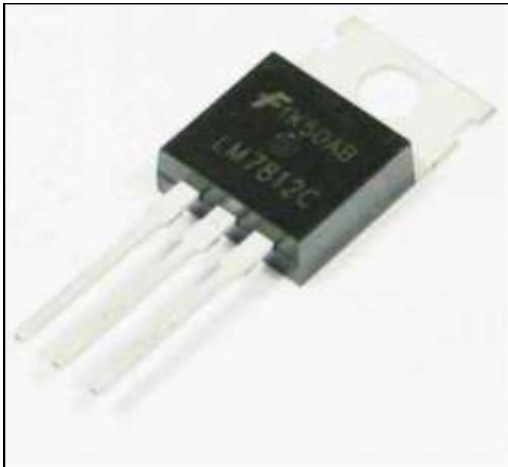
As already mentioned, your power supply and solar controller are iterations of a voltage regulator. Battery chargers & maintainers are in the club too. Power management devices such as those from [West Mountain Radio](#) are also just voltage regulators with added features wrapped in a cool package. No matter how fancy, or how basic, they all do essentially the same thing.

If you are into emergency communications or preparing for [SHTE](#), it would be a wise idea to

build some simple battery chargers and solar controllers and have them at the ready. Of course, keep a stock of spare parts too. Explicit instructions on how to build these devices is beyond the scope of this article, but there are plenty of YouTubes and on line resources to guide you. Product data sheets are a wealth of information too.

Almost every type of voltage regulator is available in different packages, or formats. There is no functional difference between the **various packages. It's simply a matter of physical design requirements.** The most common formats are TO-220, TO-3, and TO-263. The TO-263 format is also known as D2PAK or DDPAK. **There are many other package formats; we're just covering a few here.**

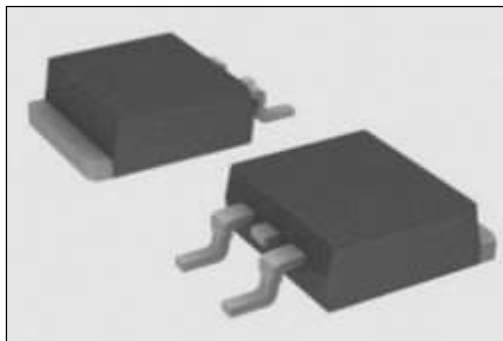
*(Continued on page 5, Voltage Regulators)*



Heat sink mount TO-220 semiconductor package.  
*PUBLIC DOMAIN IMAGE*



Cabinet mount TO-3 semiconductor package.  
*PUBLIC DOMAIN IMAGE*



Surface mount TO-263 package.  
Also known as DD2PAK or DDPAK.  
*PUBLIC DOMAIN IMAGE*

(Wire, Continued from page 3)



Komelon ML1810

Fortunately, there are less-expensive options. For example, you could purchase a measuring wheel, like the [Komelon ML1810 Measuring Wheel](#). This device costs less than \$30. The downside to this is that you'd have to build some kind of fixture to hold the wire tight to the wheel while you're measuring the wire. That doesn't seem like it would be too difficult to do, though. The upside is that you could then use it to measure other things around the house, like your lot size or the length of your driveway.

Amazon also sells other types of meters with rollers and two wheels, but it looks like these meters were designed to measure material. As such, they're calibrated

in yards. I think that those would be more difficult to use.

A couple of the respondents mentioned that they had made marks on their driveways and used those marks to measure wire lengths when they needed to. Another mentioned that he used a laser distance measurer.

**Those seem like good options, too, but I think I'd still like to have something like the cordage measurer. Maybe I'll buy the measuring wheel and play around with it.**

The post [How to measure wire length](#) appeared first on [KB6NU's Ham Radio Blog](#).

Visit Dan, KB8NU, at <https://www.kb6nu.com/>

### [Mark Your 2021 LARC Calendars](#)

**April 17:** Michigan QSO

**May 12:** VE Session

**June 26-27:** ARRL Field Day  
(We are still seeking a new site. Several city parks have been suggested.)

**July 21:** VE Session

**July 31:** Hot Dog & Corn Roast

**November 13:** Edmund Fitzgerald Special Event at the Dossin

(Voltage Regulators, Continued from page 4)

Do not be intimidated. It's really not that hard. Here is a simple DIY [solar controller](#) and a [battery charger](#). Both use a linear regulator from the previously-discussed LM78xx family. Even the most inexperienced ham on a low budget can successfully assemble these in a weekend.

Data sheets.

Every semiconductor has a [data sheet](#). A data sheet is a short summary of all the specifications of a given component. For example, it will list physical characteristics, maximum and minimum operating temperatures, voltage and current parameters, and much more. There is more information on a data sheet than the average ham will ever need.

Data sheets are not that critical if you are building someone else's design and they've already sorted out the technical details for you. If you are gutsy (or smart) enough to create an original circuit, or modify an existing circuit, data sheets are essential.

Yes, you can do this!

DIY projects are seldom as good as commercially made devices, but they are very easy and inexpensive and will work surprisingly well. You'll also have the

benefit of knowledge. If something goes wrong, you'll be familiar with how to troubleshoot the device because you built it. They're excellent learning projects and SHTF backups.

What we learned today.

You should now be able to:

- Define what a voltage regulator is and what it does.
- Understand the importance of voltage regulators and the types of devices that use them.
- Understand and describe the basic characteristics of linear and switching voltage regulators.
- Recognize and identify the TO-220, TO-3, TO-263, D2PAK, and DDPK semiconductor packages.
- Define and understand the terms *buck*, *boost*, *buck-boost*, and *DC-DC converter* in the context of a voltage regulator.
- Locate on line resources on how to build useful devices with voltage regulators.
- Know what data sheets are and their importance to circuit design & construction.

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<https://offgridham.com/>

## SPECIAL EVENT STATIONS

### 03/23/2021 | Honoring World War II Gunners at Buckingham Airfield

Mar 23-Mar 25, 1400Z-2100Z, W4LX, Fort Myers, FL. Fort Myers Amateur Radio Club. 28.360 21.360 14.270 146.685. Certificate. W4LX Fort Myers Amateur Radio Club, P.O. Box 61183, Fort Myers, FL 33906. [www.fmarc.net](http://www.fmarc.net)

### 04/01/2021 | Quebec Parks On The Air (QcPOTA)

Apr 1-Dec 31, 0000Z-2359Z, all, all. VE2GT and VE2NCG. ALL. Certificate. no QSL, no QSL, no QSL, CANADA. [qcpota.ca](http://qcpota.ca)

### 04/10/2021 | Celebration of the 155th Anniversary of Auburn University

Apr 10-Apr 11, 1200Z-2359Z, W4E, Auburn University, AL. Auburn University. 7.060 7.074 and 7.047.5 14.074 and 14.080 7.070. QSL. Stew Schneller, 1869 Hillton Court, Auburn, AL 36830-2693. [www.qrz.com/db/k4jop](http://www.qrz.com/db/k4jop)

### 04/10/2021 | Spring has Sprung

Apr 10, 1700Z-2100Z, W4D, Kodak, TN. Sevier County Emergency Radio Service. 14.280 +/- .020 USB 7.200 +/- .020 LSB 14.070 +/- .020 PSK31 7.070 +/- .020 PSK31 CW only on 7.060 +/- .010. QSL. Thomas P. Baxter W9TPB, 2054 James Rd., Sevierville, TN 37876. For additional information, please go to our website [www.eventqsl.webs.com](http://www.eventqsl.webs.com)

### 04/14/2021 | Maritime Radio Day 2021

Apr 14-Apr 22, 1200Z-2200Z, various, various, GERMANY. Maritime Radio Day. CW only. Certificate & QSL. Rolf Marschner, Narzissenweg 10, 53359 Rheinbach, GERMANY. This is an operating event. Please see website for rules. [mrd.sfk-bremen.com](http://mrd.sfk-bremen.com)

### 04/17/2021 | Celebrating the Louisiana Purchase

Apr 17-Apr 24, 0000Z-2359Z, W5L, West Monroe, LA. NorthEast Louisiana Amateur Radio Club. 14.250 21.250 7.250 3.850. QSL. Jim Ragsdale, W5LA, 111 Eagle Lake Drive, West Monroe, LA 71291. <https://www.qrz.com/db/W5L>

### 04/17/2021 | Texas State Parks On the Air (TSPOTA)

Apr 17-Apr 19, 1400Z-0200Z, K5LRK, The Colony, TX. Lake Area Amateur Radio Club. CW Phone VHF. QSL. See website, for, Information. Times are daily.

K5LRK on as a special event station. Contest: Activate as many Texas parks as possible. [www.k5lrk.com](http://www.k5lrk.com) or [www.tspota.org](http://www.tspota.org)

### 04/18/2021 | World Amateur Radio Day

Apr 18-Apr 19, 1300Z-0400Z, W7W, Rochester, NY. W2JLD/Special event coordinator. Echolink \*ROCHAM\* CONFERENCE 531091 Allstar 2585, 47620, 53130. QSL. John Derycke, W2JLD, 85 Amherst St #2, Rochester, NY 14607. This will be our 6th annual WORLD AMATEUR RADIO DAY celebration on the VOIP Echolink system We have a 16 hr net with net controllers from all over the world. A special event qsl card will be available Join us again for one of the LARGEST special events on Echolink@ 9AM EST TILL 12 MINDNIGHT EST we will have Allstar, DMR as well. [w2jld2@gmail.com](mailto:w2jld2@gmail.com)

### 04/24/2021 | 156th Anniversary of Sultana Disaster

Apr 24, 1500Z-2100Z, W5S, West Memphis, AR. AG5QY. 14.240. QSL. Marc Gwin, 1402 Stratford Drive, West Memphis, AR 72301. <https://ag5qy9.wixsite.com/ag5qy>

### 04/24/2021 | San Jacinto Day Special Event

Apr 24-Apr 25, 1400Z-2359Z, K5T, Nacogdoches, TX. Nacogdoches Amateur Radio Club. 7.216 14.260 21.350 28.350. QSL. Army Curtis, 167 CR 2093, Nacogdoches, TX 75965. All contacts will be confirmed via LOTW <https://w5nac.com>

### 04/24/2021 | W1BSA Birthday of Scouting Event

Apr 24, 1400Z-1930Z, W1BSA, Fall River, MA. USTNE ne1pl.org. 14.259. QSL. Rick Emord, 135 Wareham St., Middleboro, MA 02346. The USTNR group will be activating on the USS Massachusetts this year at least 4 times for the following events. Except for the Museum ships on the air event, we will be on the air by 1000 EST or 1400 utc we will be shut down at 1530 EST or 1930 utc. We have a website to see the current QSL card for the events go to ne1pl.org. Look for the ticker tape for added events. Our first event for the year will be: W1BSA April 24th On the air by 1000 off the air around 1530 This event is for the Birthday of Scouting in America. The birthday is on February 8, 1910 because of the chilly weather in February we celebrate in April. Please visit [battleshipcove.org](http://battleshipcove.org) for more information about the park and its equipment. Please visit us at [ne1pl.org](http://ne1pl.org)

# HAMFESTS & SWAPS

**Editor's Note:** The Hudsonville event is the first Hamfest in the past year that is not cancelled at the present time. The same is true of the other swaps listed. All are several months in the future. I would recommend checking their websites before planning on attending. I will update the list in the coming issues of *The Repeater*.

## 06/05/2021 - IRA Hudsonville Hamfest

Location: Hudsonville Fairgrounds  
5235 Park Ave.  
Hudsonville, MI 49426  
Website: <http://www.w8ira.org>  
Sponsor: Independent Repeater Association  
Type: ARRL Hamfest  
Talk-In: 147.16 MHz, +600 KHz, 94.8 PL  
Public Contact: Tom Bosscher , K8TB  
3148 Rosewood Hudsonville, MI 49426  
Phone: 616-293-1154  
Email: [hamfest@w8ira.org](mailto:hamfest@w8ira.org)

## 06/12/2021 - LARS YOOPER HAMFEST

Location: Pentland Township Hall  
15474 Highway M-28  
Newberry, MI 49868  
Website: <http://www.w8nby.org>  
Sponsor: Luce Amateur Radio Society  
Type: ARRL Hamfest  
Talk-In: 146.01 - 146.61 Tone 114.8  
Public Contact: David Hopper , KA8K  
22926 Maple Dr McMillan, MI 49853  
Phone: 906-586-3928  
Email: [mspl87@outlook.com](mailto:mspl87@outlook.com)

## 06/20/2021 - Monroe Hamfest

Location: Monroe County Fair Grounds  
3775 S. Custer Road  
Monroe, MI 48161  
Website: <http://www.mcrca.org>  
Sponsor: Monroe County Radio Comm Assoc  
Type: ARRL Hamfest  
Talk-In: 146.72/12 100Hz  
Public Contact: Fred VanDaele , K8EBI  
4 Carl Dr Monroe, MI 48162  
Phone: 1-734-755-4904  
Email: [ka8ebi@yahoo.com](mailto:ka8ebi@yahoo.com)

## 07/10/2021 - Mansfield Mid-Summer Trunkfest

Location: Richland County Fairgrounds  
750 N. Home Road  
MANSFIELD, OH 44901

Website: <http://WWW.IARC.CLUB>

Sponsor: Intercity Amateur Radio Club  
Type: ARRL Hamfest  
Talk-In: 444.700+ DMR313920/443.100+PL.110.9 YSF/  
SIMPLEX 146.460  
Public Contact: Danny Bailey , W8DLB  
70 Euclid Street Shiloh, OH 44878  
Phone: 419-541-8557  
Email: [W8DLB113@GMAIL.COM](mailto:W8DLB113@GMAIL.COM)

## 08/07/2021 - DX Engineering Hamfest

Location: DX Engineering/Summit Racing  
1200 Southeast Ave  
Tallmadge, OH 44278  
Website: <http://dxengineering.com>  
Sponsor: DX Engineering  
Type: ARRL Convention  
Talk-In: 146.985 -600  
Public Contact: Teri Grizer , K8MNJ  
1200 Southeast Ave Tallmadge, OH 44278  
Phone: 330-630-7520  
Email: [tgrizer@dxengineering.com](mailto:tgrizer@dxengineering.com)

## 08/28/2021 - Cincinnati Hamfest<sup>SM</sup>

Location: Clermont County Fairgrounds  
1000 Locust St  
Owensville, OH 45160  
Website: <http://CincinnatiHamfest.org>  
Sponsor: Milford ARC  
Type: ARRL Hamfest  
Talk-In: 147.345+ (CTCSS 123.0 MHz)  
Public Contact: Dave Vest , K8DV  
2934 Rontina Blvd Goshen, OH 45122  
Phone: 513-304-5445  
Email: [info@cincinnatihamfest.org](mailto:info@cincinnatihamfest.org)

## 09/11/2021 - Greater Louisville Hamfest 2021 - 60th Anniversary

Location: Paroquet Springs Conference Centre  
395 Paroquet Springs Drive  
Shepherdsville, KY 40165  
Website: <http://LouisvilleHamfest.com>  
Sponsor: Greater Louisville Hamfest Association  
Type: ARRL Hamfest  
Talk-In: 146.700 MHz (CTCSS 79.7 Hz) and 443.700 MHz (CTCSS 79.7 Hz)  
Public Contact: Robert Myers , K4RVM  
P.O. Box 34444 Louisville, KY 40232-4444  
Phone: 502 379-7695  
Email: [glha-2021@louisvillehamfest.com](mailto:glha-2021@louisvillehamfest.com)

# CONTESTING, PART 1

## INFORMATION ABOUT THESE AND MANY OTHER CONTESTS AVAILABLE AT:

<http://www.hornucopia.com/contestcal/contestcal.html>

NAME	DATES	MODES	BANDS	CATEGORIES	LINK
<b>MARCH 2021</b>					
<a href="#">+ FOC QSO Party</a>	0000Z-2359Z, Mar 27	CW	160, 80, 40, 20, 15, 10, VHF	Single Op	<a href="http://g4foc.org/qsoparty/">http://g4foc.org/qsoparty/</a>
<a href="#">+ Worldwide Sideband Activity Contest</a>	0100Z-0159Z, Mar 30	SSB	160, 80, 40, 20, 15, 10, 6m	Several	<a href="https://wwsac.com/rules.html">https://wwsac.com/rules.html</a>
<b>APRIL 2021</b>					
<a href="#">+ Florida State Parks on the Air</a>	1400Z-2200Z, Apr 3 and 14 00Z-2200Z, Apr 4	CW, SSB, Digital	80, 40, 20, 15, 10m	Single/Multi	<a href="http://flspota.org/rules/">http://flspota.org/rules/</a>
<a href="#">+ Mississippi QSO Party</a>	1400Z, Apr 3 to 0200Z, Apr 4	CW, SSB, RTTY, FT4/8	160, 80, 40, 20, 15, 10, 6, 2m	Several	<a href="http://www.arrlmiss.org/2021_MS_QSO_PARTY_RULES_-_Final_.pdf">http://www.arrlmiss.org/2021_MS_QSO_PARTY_RULES_-_Final_.pdf</a>
<a href="#">+ Louisiana QSO Party</a>	1400Z, Apr 3 to 0200Z, Apr 4	CW/Digital Phone	160, 80, 40, 20, 15, 10, 6, 2m	Several	<a href="http://laqp.louisianacontestclub.org/laqso_rules.htm">http://laqp.louisianacontestclub.org/laqso_rules.htm</a>
<a href="#">+ DARC Easter Contest</a>	1500Z-1730Z, Apr 4	CW, SSB	80, 40m	Single Op	<a href="https://www.darc.de/der-club/referate/conteste/darc-ostercontest/en/">https://www.darc.de/der-club/referate/conteste/darc-ostercontest/en/</a>
<a href="#">+ Nebraska QSO Party</a>	1300Z, Apr 10 to 0100Z, Apr 11 and 13 00Z-2200Z, Apr 11	CW, Phone, Digital (non-FT8), FT8	160, 80, 40, 20, 15, 10, VHF/UHF	Single/Multi	<a href="http://www.nebraskaqsoparty.org/rules1.htm">http://www.nebraskaqsoparty.org/rules1.htm</a>
<a href="#">+ New Mexico QSO Party</a>	1400Z, Apr 10 to 0200Z, Apr 11	CW, Phone, Digital	160, 80, 40, 20, 15, 10, 6, 2m	Single/Multi	<a href="http://www.newmexicoqsoparty.org/">http://www.newmexicoqsoparty.org/</a>
<a href="#">+ Georgia QSO Party</a>	1600Z, Apr 10 to 0400Z,	CW, Phone	160, 80, 40, 20, 15, 10m	Several	<a href="https://gagsoparty.com/">https://gagsoparty.com/</a>



# CONTESTING, PART 2

NAME	DATES	MODES	BANDS	CATEGORIES	LINK
<b>APRIL 2021</b>					
<a href="#">+ QRP ARCI Spring QSO Party</a>	0000Z-0600Z, Apr 10	CW	160, 80, 40, 20, 15, 10m	Bands	<a href="http://qrparci.org/contest/spring-qso-party">http://qrparci.org/contest/spring-qso-party</a>
<a href="#">+ North Dakota QSO Party</a>	1800Z, Apr 10 to 1800Z, Apr 11	CW, Phone, Digital (including FT4/8)	160, 80, 40, 20, 15, 10, 6, 2m	Several	<a href="http://ndarrlsec.com">http://ndarrlsec.com</a>
<a href="#">+ Texas State Parks on the Air</a>	1400Z, Apr 17 to 2000Z, Apr 18	All	All except WARC	Several	<a href="http://www.tspota.org/">http://www.tspota.org/</a>
<a href="#">+ Michigan QSO Party</a>	1600Z, Apr 17 to 0400Z, Apr 18	CW, SSB	80, 40, 20, 15, 10m	Several	<a href="http://www.miqp.org/Rules.htm">http://www.miqp.org/Rules.htm</a>
<a href="#">+ Ontario QSO Party</a>	1800Z, Apr 17 to 0500Z, Apr 18 and 12 00Z-1800Z, Apr 18	CW, Phone	160, 80, 40, 20, 15, 10, 6, 2m	Several	<a href="http://www.va3cco.com/oqp/rules.htm">http://www.va3cco.com/oqp/rules.htm</a>
<a href="#">+ QRP to the Field</a>	0800-1800 local, Apr 24	CW, SSB	80, 40, 20, 15m	Single/Multi/Club	<a href="http://www.zianet.com/qrp/qrptff/pg.html">http://www.zianet.com/qrp/qrptff/pg.html</a>
<a href="#">+ Florida QSO Party</a>	1600Z, Apr 24 to 0159Z, Apr 25 and 12 00Z-2159Z, Apr 25	CW, Phone	40, 20, 15, 10m	Several	<a href="http://floridaqsoparty.org/rules/">http://floridaqsoparty.org/rules/</a>
<a href="#">+ International Vintage Contest HF</a>	1200Z-1800Z, Apr 25	CW, SSB, AM	80, 40m	Single/Multi	<a href="http://www.contestvintage.beepworld.it/rules-2012.htm">http://www.contestvintage.beepworld.it/rules-2012.htm</a>

# DX NEWS

Start Date	End Date	DXCC Entity	Call	QSL via	Reported by	Info
<b>MARCH 2021</b>						
2021 Mar26	2021 Mar26	<b>Marshall Is</b>	<b>KH9</b>	WW6RG	<a href="#">TDDX</a> 2E+07	By WW6RG; 20m; SSB; QRP; mag loop; 0400-0730z
<b>CQ WW WPX Contest, SSB (Mar 27-28, 2021) Check here for pericontest activity too.</b>						
2021 Mar28	2021 Apr10	<b>Maldives</b>	<b>8Q7MS</b>	LoTW	<a href="#">DXW.Net</a> 2E+07	By RM2D fm Alif Atoll; 40-15m; mainly CW, some SSB; inv vees; 1/4 wave verts; QSL route TBA
<b>APRIL 2021</b>						
2021 Apr01	2021 Apr01	<b>Marshall Is</b>	<b>KH9</b>	WW6RG	<a href="#">TDDX</a> 2E+07	By WW6RG; 20m; SSB; QRP; mag loop; 0400-0730z
2021 Apr26	2021 May09	<b>Svalbard</b>	<b>JW6VDA</b>	LoTW	<a href="#">DXNews</a> 2E+07	By LA6VDA fm IOTA EU-026 (JQ78tf); HF; SSB; QSL via Club Log OQRS, eQSL
<b>MAY 2021</b>						
2021 May01	2021 May07	<b>Ogasawara</b>	<b>JD1BQA</b>	JH3QFL Direct	<a href="#">DXW.Net</a> 2E+07	By JH3QFL fm Komagari, Chichijima I (IOTA AS-031); 160 80 40, 6m; FT8 FT4 + satellite (RS-44, CW); 200w; QSL: Takio Hata, 921-25 Rokujo Yasu, Shiga 520-2412, Japan
<b>JUNE 2021</b>						
2021 Jun12	2021 Jul10	<b>St Kitts &amp; Nevis</b>	<a href="#">V47JA</a>	LoTW	W5JON 2E+07	By W5JON fm Calypso Bay; 160-6m, incl 60m; SSB FT8; yagi, verticals; QSL also OK via W5JON direct
2021 Jun22	2021 Jun28	<b>St Eustatius</b>	<a href="#">PJ5</a>	LoTW	W5JON 2E+07	By W5JON as PJ5/W5JON; 40-6m SSB FT8; QRV for CQWW DX SSB; QSL also OK via W5JON direct
2021 Jun29	2021 Jul13	<b>St Pierre &amp; Miquelon</b>	<a href="#">FP</a>	LoTW	<a href="#">DXW.Net</a> 2E+07	By KV1J as FP/KV1J fm Miquelon I (IOTA NA-032, DIFO FP-002, WLOTA 1417); 160-6m; mainly SSB CW RTTY FT8 FT4; see Web for QSL details
<b>JULY 2021</b>						
2021 Jul07	2021 Jul14	<b>Aruba</b>	<a href="#">P4</a>	ND7J	ND7J 2E+07	By ND7J as P4/ND7J and N4IQ as P4/N4IQ; QRV for IARU Contest
2021 Jul14	2021 Jul21	<b>Bahamas</b>	<b>C6AHA</b>		<a href="#">DXW.Net</a> 2E+07	By N4RRR K4KSW N4QBS NN2T fm IOTA NA-048; HF FT8 SSB CW
2021 Jul23	2021 Aug03	<b>St Vincent</b>	<a href="#">J88PI</a>	GW4DV B Direct	<a href="#">DXW.Net</a> 2E+07	By GW4DVB fm Palm I (IOTA NA-025, FK92ho); 40-6m; SSB FT8
<b>RSGB IOTA Contest, SSB (Jul 24-25, 2021) Check here for pericontest activity too.</b>						
<b>AUGUST 2021</b>						
2021 Aug01	2021 Aug30	<b>Dominican Republic</b>	<b>HI9</b>	eQSL	<a href="#">TDDX</a> 2E+07	By HB9TUZ as HI9/HB9TUZ fm Las Terransa; 40-10m; SSB

## SOME POPULAR LOCAL NETS

Net	Day	Time	Frequency	PL Tone	Link
Michigan Traffic Net	Daily	7:00 PM	3.952 MHz	None	<a href="#">MITN</a>
Michigan Net	Twice Daily	6:30 PM 10:00 PM	3.563 MHz	None	<a href="#">QMN</a>
Southeastern Michigan Traffic Net	Daily	10:15 PM	146.76 MHz	100 Hz	<a href="#">SEMNTN</a>
Wolverine SSB Net	Daily	2200 UTC	3.935 MHz	None	<a href="#">WSSBN</a>
Michigan ARPSC Net	Sunday	5:00 PM	3.932 MHz	None	MIARPSC
Garden City ARC	Sunday	9:00 PM	146.86 MHz	100 Hz	<a href="#">GCARC</a>
Salvation Army Team Emerg. Radio Net	Monday	7:30 PM	147.18 MHz	100 Hz	<a href="#">SATERN</a>
U of M ARC	Sunday	8:00 PM	145.230	100 Hz	<a href="#">W8UM</a>
ARROW ARC	Monday	8:00 PM	146.96 MHz	100 Hz	<a href="#">ARROW ARC</a>
ARROW DMR	Monday	9:00 PM	443.5/448.5, TG 312654, color code 1, time slot 1		
Utica Shelby Emerg. Com Slow Code	Monday	9:00 PM	147.18 MHz	100 Hz	<a href="#">USECA</a>
Motor City ARC	Tuesday	9:00 PM	147.24 MHz	100 Hz	<a href="#">MCARC</a>
Wayne County ARPSC Net	Wednesday	9:00 PM	145.330 MHz	100 Hz	<a href="#">WA8EOC</a>
Hazel Park ARC Kids	Thursday	7:00 PM	146.64 MHz	100 Hz	<a href="#">HPARC</a>
Oakland County ARPSC Net	Thursday	8:00 PM	146.900 Hz	100 Hz	W8OAK
<b>LARC 2 Meter Net</b>	<b>Thursday</b>	<b>8:00 PM</b>	<b>145.35 MHz</b>	<b>100 Hz</b>	<a href="#">Livonia ARC</a>

### MICHIGAN QSO EVENT APRIL 16-18

This year's Michigan QSO Event will be on Saturday, April 17, 2021 and LARC will be operating from the Livonia Police Department's EOC.

This will be the first time we will be operating under the EOC callsign, N8LPD. Mike Rudzki, N8MR, and Bill Allen, AD8WA, will be looking for volunteers to help set-up antennas at noon, on Friday, April 16, and then remove them at 1100, on Sunday, April 18.

Indoor equipment setup begins at 1000 on Saturday, with the QSO operations running from 1200 to 2359. We are planning on operating both a CW and a phone station.

Due to Covid restrictions, the number of participants will be limited to 8 at any one time, so we are asking members to plan and schedule some time, preferably 2 hour blocks, to help operate. Please contact Mike or Bill if you are able to help on Friday, Saturday, or Sunday.



Keith Mavin, KE9AUO, presents his Go-Box set-up at the March Lark in the Park at the Livonia Police Training Room. *Photo by Chuck, WV8A.*

# ABOUT LARC



**LIVONIA AMATEUR RADIO CLUB**  
**P.O. Box 51532**  
**LIVONIA, MI 48151-5532**  
[info@livoniaarc.com](mailto:info@livoniaarc.com)



The Livonia Amateur Radio Club, founded in 1969, has been a long-standing part of the Livonia, Michigan community. Our club has wide and varied interests -- Special Events, DX, Contesting and more. LARC has been affiliated with the ARRL since February 7, 1976.

## LIVONIA AMATEUR RADIO CLUB OFFICERS & COMMITTEE CHAIRS

President - Mike Cononie, KE8CEH— [president@livoniaarc.com](mailto:president@livoniaarc.com)

Vice President - Gordon Scannell—KD8COJ

Treasurer - Bill Allen, AD8WA

Recording Secretary - Mike Hammerber, K8AGY

Public Information Officer - Chuck Reti, WV8A

Club Directors—Keith Mavin, KE8AUO; Mike Rudzki, N8MR; Zach Raubinger, K8ZRY

Membership Manager - Bill Allen, AD8WA

Club License (K8UNS) Trustee—Mike Hammerberg, K8AGY

Club License (N8LPD) Trustee—Bill Allen, AD8WA

ARRL VE Liaison—Mike Rudzki, N8MR

Webmaster—Zach Raubinger, K8ZRY; Dane Bohr, K8DPB, Consultant

LARC in the Park Coordinator—Joe Mattia, KE8DOU

LARC/LPD EOC Liaison—Bill Allen, AD8WA

Repeater Maintenance - Dan Saputo, K8PLW

Swap-N-Shop—Gordon Scannell, KD8COJ

Field Day Coordinator—**NEEDED**

2-Meter Net Manager - Hiro Wakamatsu, AD8AE

Breakfast Club Moderator—Dr. Jerry Custer, N8DXZ

Refreshments—Mike Hammerberg, K8AGY

Equipment Manager - Mike Rudzki, N8MR

Safety Officer - Andy Biggs, KD8ZPX

Volunteer Examiners - AC8ND, AC8TG, AD8AE, AD8WA, K8GNG, K8RKT, KB8DGC, KD8ZPX, KE8AUO, KN8B, N8DXZ, N8MR, N8RI, W2EQX, W6AQT, WV8A

Repeater Newsletter Editor - Sandy Allen, AK8KA — [spallen17@gmail.com](mailto:spallen17@gmail.com)

