



The Spirit of '76 and '88



February Newsletter of the
Lake Erie Amateur Radio Association

2020

Carsten Lohrmann, KD8WBB, Editor



Cleveland Skywarn Radio Operations

by Mat Nickoson, KC8NZJ

For the upcoming February meeting, Mat Nickoson, KC8NZJ will give a presentation about Cleveland's Skywarn Radio Operations. The program will discuss how amateur radio operators can report severe weather to their local Skywarn nets, and what the structure of those nets is and how those reports get routed to the National Weather Service.

Mat will also discuss the activation criteria for the Cuyahoga County Skywarn net as well as activation criteria for having amateur radio operators staff the National Weather Service office. Learn what things should and should not be reported to a Skywarn net.

Meet at "FireHouse Grille & Pub"

2768 Stark Dr. Willoughby Hills, OH 44094

Tuesday, February 25

6:30 p.m. dinner, 7:30 p.m. meeting

The February 25, 2019 LEARA meeting will be at Fire House Grille & Pub, located at 2768 Stark Drive in Willoughby Hills, OH 44094. Take SOM Center Rd. (Rt. 91) to Stark Drive and go West.

As usual, dinner will begin at 6:30 p.m. followed by the club meeting. Attendees can order off of the menu, so there is no set price for the dinner, but advance reservations are required.

The menu is available online at

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

Reservations may be made on the club website at <http://www.leara.org>, or by calling Marv Grossman (W8AZO) at 440-248-0031.

Please let us know if you have any special dietary needs or concerns.

Reservations must be submitted by Sunday, February 23rd.

We hope to see you there.



Big generator raffle!
Want a Honda EU2200i?
Check out page 9!

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NEWSLETTER	
<p>The Spirit of '76 & '88 is published monthly except in December. Contributions must be received by the 2nd Sunday of the month except on months with 5 Sundays and 5 Tuesdays when the 3rd Sunday will be sufficient.</p> <p>Editor: Carsten Lohrmann, KD8WBB E-mail: editor@leara.org</p> <p>Proofreading: TNX to W8AZO, N8YNR</p>	

The Prez Says

by Bryan Torok, N8OOF



The January Meeting was at My Friends Restaurant, on the west-side of Cleveland. Our own Eric Jessen, N8AUC, gave an excellent updated presentation of his program on using inexpensive solar power for Field Day and for powering ham radios during extended commercial power outages.

The February Meeting will be at will be at Fire House Grille & Pub. The program will be presented by Mat Nickoson, KC8NZJ, giving our annual Skywarn/weather related program. In recent years, Mat has done an excellent job of keeping his presentation fresh. Details are on the front page.

Per the National Weather Service, "*** Due to a staffing shortage, the NWS office in Cleveland will not be holding any resident (in person) Skywarn classes for Spring 2020. We are looking at alternate options and will update accordingly."

https://www.weather.gov/cle/SKYWARN_schedule

LEARA Fundraiser: LEARA is raffling off a Honda EU 2200i generator to raise much-needed funds. This is the premier inverter generator for Field Day, camping, light duty home power backup, and many other uses. In addition to the 120 VAC output this generator also has a 12 VDC output, useful for charging batteries or running ham radio gear. More info on page 9.

We need your help! In addition to buying tickets, LEARA needs your help in selling tickets and getting the word out to others who might purchase a ticket. If you can help with sales, please contact Jeff Garvas, N8YNR, 216-496-3928 (cell or text), 330-468-5121 (voicemail), or n8ynr@leara.org.

The Lake Erie Amateur Radio Assn., Inc., **LEARA**, is a not-for-profit [501(c)(3)] organization dedicated to Amateur Radio and Public Service. Club information packets and applications for membership are available from **Marv Grossman, W8AZO, 440-248-0031**, or may be downloaded from our web site at www.leara.org. Annual membership is \$25.00. **LEARA's address** is: LEARA, P.O. Box 22823, Beachwood, OH 44122-0823.

LEARA is an **ARRL**-affiliated club. When you join or renew the **ARRL**, **LEARA** benefits monetarily if you do so through the club. Send **ARRL** Applications/renewals to LEARA, P.O. Box 22823, Beachwood, OH 44122-0823. Make the check payable to **LEARA**, not the **ARRL**.

Membership Meetings are held the last Tuesday of each month (except December and June) at a Cleveland-area restaurant to be announced each month in the newsletter. The LEARA newsletter usually arrives near the middle of the month. Locations for dinner may vary and often require a reservation. Those interested in dinner should arrive around 6 p.m. The meeting begins at 7:30 p.m. Meetings are open to all interested persons. You may attend without eating.

Trustees' Meetings are on the second Saturday of odd numbered months. Meetings are open to all current members of LEARA. **Locations are subject to change.** Trustees meet at one of the Cuyahoga County Public Library branches. Contact a trustee or check the website at www.leara.org for details.

Prez cont.

Note: Getting a booklet of tickets to sell does not obligate you to sell all the tickets. However, you will need to return any unsold tickets. You may also refer people to <http://leara.org/raffle> where they may purchase tickets.

Why are we doing this? At the January Trustees meeting we were presented with the possibility of moving our 444.400 repeater to a tower where it will have much better coverage in southern Cuyahoga County and into Northern Summit County. This will be useful to ARES in both counties. In order to take advantage of this offer LEARA will have to pay the cost of an engineering study to be sure that our repeater and the mix products of the frequencies of other transmitters at the site will not create harmful interference. We may also have to pay the cost of an engineering study for tower loading in the physical mounting of our antenna. In addition, there will be the cost of the feed line, antenna, mounting, and a professional tower climber to install these items. All totaled, these costs may run into the neighborhood of \$5000 or more. Please help however you can.

Until next month, talk on the radio, and use the repeaters. Come out and see us at a meeting. We look forward to seeing you.

Sun	Mon	Tue	Wed	Thu	Fri	Sat
9 February	10	11 ARES® 80m 7:15 pm OSSB 8 pm OHDN	12	13 8 pm LEARA VOICE '76	14 Valentine's Day	15
16	17 Presidents' Day	18 ARES® 80m 7:15 pm OSSB 8 pm OHDN	19	20 8 pm LEARA VOICE '76	21	22
23	24	25 6:30 pm LEARA Club Meeting	26	27 8 pm LEARA VOICE '76	28	29
1 March	2	3 ARES® 80m 7:15 pm OSSB 8 pm OHDN	4 8:30 pm Skywarn Net 146.76/R	5 8 pm LEARA VOICE '76	6	7
8 Daylight Saving Time	9	10 ARES® 80m 7:15 pm OSSB 8 pm OHDN	11 8:30 pm Skywarn Net 146.76/R	12 8 pm LEARA VOICE '76	13	14 9 am LEARA Trustee Meeting
15 Toledo Hamfest 8am-2pm	16	17 St. Patrick's Day	18 8:30 pm Skywarn Net 146.76/R	19 8 pm LEARA VOICE '76	20	21



LEARA "On the Air"

Club Net Information by Carl Gedeon, KB8VXE

The **Thursday Club Net** is held 8PM on our 146.760 (or 146.880 backup) MHz (-600 kHz offset, PL 110.9) repeater.

Checkins for January 2020

AB8UM Mike	KD8AJZ Rich	N8AUC Eric
AC8JR Andy	KD8FTS Eddie	N8CPI Fred
K2WJS BILL	KD8TWG Dave	N8OOF Bryan
K8CCS Connie	KD8WBB Carsten	N8UPZ Bill
K8EHP Mike	KE8CED Robert	W8HF W8HF
K8RJH Ron	KE8GKO Jodi	W8IE Ed
K8SAS Steve	KE8KMA Rich	W8IXY Ted
KB8MJU Don	KE8MQH Alex	WA4WGA Ray
KB8VXE Carl	KG8DN Ken	WA8ZHN Jim
KC8FQV Mark	KM8V Jon	WB8JWE Frank
KC8NZJ Mat	N8AGM Tom	WB8ROK Ed
KD8ACO David	N8AHS Fred	WB8TOP

Remember if you missed a net, check out the web page for a recap of the trivia and discussion questions.

For January,
February and
March, the
tentative
scheduled
NCOs are:

Net Control Schedule

01/16/20	Steve	K8SAS
01/23/20	David	KD8ACO
01/30/20	Mike	AB8UM
02/06/20	Carl	KB8VXE
02/06/20	Bill	K2WJS
02/13/20	Carl	KB8VXE
02/20/20	Eric	N8AUC
02/27/20	Ken	KG8DN
03/05/20	Steve	K8SAS
03/12/20	David	KD8ACO
03/19/20	Bill	K2WJS
03/26/20	Mike	AB8UM

Please check the website for current assignments.

The Wednesday Night Skywarn Practice Net

Skywarn season runs from March through September. The Skywarn practice nets are on hiatus until March. Skywarn nets are held on LEARA's 146.760 repeater. Should the National Weather Service issue a severe weather alert, a Skywarn net will be started 146.760 repeater. Be sure to visit the web page at www.ccskywarn.org for more information and training sessions.

ARES

For the he next ARES meetings, check the website at <http://www.arrl-ohio.org/SEC/>. You do not have to be a member to attend, all are welcome. See website for more information. The nets are held Tuesdays on the 145.410 Repeater at 8 p.m. local time.

Thursday Net NCOs

Do you know K2??? How about ??UPZ? Do you recognize the voice. Have you met them in person? What about N8OOF? Every one of us has a unique voice. A great way to learn who these voices belong to is to be a net controller! Not only do you learn their voice but when you see them face to face at a meeting you remember the "whole" person. Consider being a net controller. We can always use more LEARA Members to become Net Control Operators (NCOs). It's a *great* way to learn the voices and call signs of the members of the club as well as the visitors of the ham community. It's an easy to learn job that is very important in emergencies.

We look forward to your participation!

NCOs

AB8UM MIKE	KD8ACO DAVID
K2WJS Bill	KG8DN KEN
K8SAS STEVE	N8AUC ERIC
KB8VXE CARL	WA8LIV ANDREW

Carl, KB8VXE, email: kb8vxe@arrl.net

Volunteer Exam Dates and Locations

from www.arrl.org

02/18/2020 | [Sandusky OH 44870-1926](#)

Sponsor: Sandusky, Ohio VE Team

Location: Sandusky Radio Club

Time: 7:00 PM (Walk-ins allowed)

[Learn More](#)

02/19/2020 | [Akron OH 44301-2108](#)

Sponsor: Pioneer VE Team

Location: Firestone Park Community Center

Time: 6:30 PM (Walk-ins allowed)

[Learn More](#)

03/07/2020 | [Rittman OH 44270-1431](#)

Sponsor: Silvercreek ARA

Location: Rittman Public Library

Time: 10:30 AM (Walk-ins allowed)

[Learn More](#)

03/08/2020 | [Independence OH 44131-4841](#)

Sponsor: Cuyahoga ARS

Location: Old Elmwood Recreation Center

Time: 9:00 AM (Walk-ins allowed)

[Learn More](#)

03/15/2020 | [Elyria OH 44035-1343](#)

Sponsor: LCARA & American Red Cross

Location: American Red Cross

Time: 12:45 PM (Walk-ins allowed)

[Learn More](#)

Upcoming Hamfests and Conventions

from www.arrl.org

02/16/2020 | [Mansfield Mid-Winter Hamfest](#)

Location: Mansfield, OH

Type: ARRL Hamfest

Sponsor: Intercity Amateur Radio Club

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

[Learn More](#)

03/01/2020 | [WinterHamFest](#)

Location: Elyria, OH

Type: ARRL Hamfest

Sponsor: Northern Ohio Amateur Radio Society

Website: <http://noars.net>

[Learn More](#)

03/14/2020 - 03/15/2020

[ARRL Great Lakes Division Convention
and the
Toledo Hamfest.](#)

Location: Perrysburg, OH

Type: ARRL Convention

Sponsor: Toledo Mobile Radio Association

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

[Learn More](#)



Membership renewals!

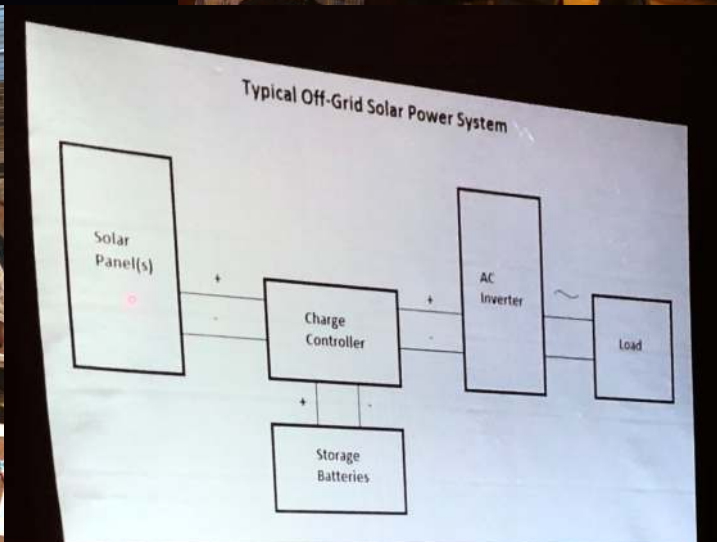
Please be aware that membership renewals are due, since end of last year! If you are still missing out, you can find renewal information or pay directly on our website:

<https://www.leara.org/club-information/membership-renewal>

Monthly LEARA Meetup January 28 - "My friends restaurant"

Pictures: Carsten Lohrmann





Types of Solar Cells

Solar Cell Type	Efficiency	Advantages	Disadvantages
Monocrystalline (Si)	~ 20%	High Efficiency Optimised for commercial use High lifetime value	Expensive
Polycrystalline (Si)	~ 15%	Lower Price	Sensitive to High Temperatures Lower Life Span Shorter Warranties & Life Span
Thin-Film/Amorphous (Si)	~ 7 - 10 %	Relatively low cost High temperatures and shading have less effect on performance Easy to produce Thin Film Panels are flexible	Require a lot of space compared to other types
Concentrated PV Cell	~ 41%	Very High Performance Very High Efficiency	Solar Tracker & cooling system required

ARRL Great Lakes Convention & Toledo Hamfest

Saturday & Sunday, 14-15th March 2020
Owens Community College (Perrysburg, OH, just outside Toledo)
30335 Oregon Rd., Perrysburg, OH 43551

My name is Brenda Krukowski (KB8IUP). I'm a member of the Toledo Mobile Radio Association and I'm a committee member for the upcoming ARRL Great Lakes Convention in Toledo, OH.

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

I would like to announce some information about this great upcoming event. We are expecting some great things this year!

Discounted tickets for all events and builds, hotel information, site information, forum info, banquet info, and hamfest details are available on the website as well at

<http://www.toledoglc.org>

ARRL Great Lakes Convention
(Saturday - March 14th, 2020)
from 8:30am-9:30pm

Location: Owens Community College
(Perrysburg, OH, just outside Toledo) - Veteran's Hall : 30335 Oregon Rd., Perrysburg, OH 43551

What: 3 Rooms of fantastic forums all day, starting with the **President of the ARRL (Rick Roderick)** at 9am, 2 hours of forums with **Bob Heil**, the ARRL Banquet (need to buy tickets ahead online at the website), and a late **Wouff Hong**.

Food: A food truck will be available on-site and information is available for other local establishments.

Tickets: You can pre-purchase tickets on the website (toledoglc.org) and receive a \$5 discount when purchasing for both the Saturday Convention and the Sunday Hamfest.

Other: Options for group meetings between 4-6pm - Let us know you are interested in your group using a room!

TOLEDO HAMFEST
(Sunday - March 15th, 2020)
from 8am-2pm

Location: Owens Community College
(Perrysburg, OH, just outside Toledo)
- Student Health and Activities Center : 30335 Oregon Rd., Perrysburg, OH 43551

What: Large Hamfest (typically 1500 attendees and many vendors) + VE Testing. This is Handicap accessible and information available at <http://tmrahamradio.org>.

Food: Available for purchase via on-site vendor.

Tickets: You can pre-purchase tickets on the website (toledoglc.org) and receive a \$5 discount when purchasing for both the Saturday Convention and the Sunday Hamfest.

We hope to see you for the weekend activities!



WIN THIS HONDA 2200 WATT GENERATOR!

With 12V DC Output!



(valued at \$1050)

The Lake Erie Amateur Radio Association in Cleveland, Ohio is raffling off a Honda EU2200i generator to raise funds for amateur radio repeater expansion and maintenance costs for equipment used in the region by the Amateur Radio Emergency Service (ARES).

Tickets are \$20 each and can be purchased from any LEARA Trustee, at any LEARA meeting, or can be purchased online via PayPal. For more information, raffle rules, and to purchase tickets see <http://leara.org/raffle>

No more than 500 tickets shall be sold and the drawing will be held so long as fifty-five tickets are sold.

Undersea Expedition Planned to Retrieve Titanic's Radio Gear

02/04/2020

from: <http://www.arrl.org/news/undersea-expedition-planned-to-retrieve-titanic-s-radio-gear>

The company with sole rights to salvage artifacts from the RMS Titanic has gone to court to gain permission to carry out a "surgical removal and retrieval" of the Marconi radio equipment on the ship, a Washington Post article reports. The Titanic sank in 1912 on its maiden voyage after striking an iceberg in the North Atlantic. As the radio room filled with water, radio operator Jack Phillips transmitted, "Come at once. We have struck a berg. It's a CQD, old man," and other frantic messages for help, using the spark transmitter on board. CQD was ultimately replaced with SOS — which Phillips also used — as the universal distress call. The passenger liner RMS Carpathia responded and rescued 705 of the passengers.



As might be expected, the deteriorating Marconi equipment is in poor shape after more than a century under water. The undersea retrieval would mark the first time an artifact was collected from within the Titanic, which many believe should remain undisturbed as the final resting place of some 1,500 victims of the maritime disaster, including Phillips. The wreck sits on the ocean floor some 2 1/2 miles beneath the surface, remaining undiscovered until 1985.

A just-signed treaty between the UK and the US grants both countries authority to allow or deny access to the wreck and to remove items found outside the vessel. "This momentous agreement with the United States to preserve the wreck means it will be treated with the sensitivity and respect owed to the final resting place of more than 1,500 lives," British Transport and Maritime Minister Nusrat Ghani said in a statement.

The request to enter the rapidly disintegrating wreck was filed in US District Court in Eastern Virginia by RMS Titanic, Inc. of Atlanta, which said that it hopes to restore the Titanic radio transmitter to operating condition, if it is allowed to go forward.

The company plans to use a manned submarine to reach the wreck and then deploy a remotely controlled sub that would perforate the hull and retrieve the radio equipment.

LEARA — The Lake Erie Amateur Radio Association

More than **50 YEARS** of Serving Greater Cleveland Since 1969

VOICE REPEATERS:

146.76/R-	• Highland Hills	(Requires 110.9 Hz tone, CTCSS)
146.88/R- IRLP	• Lakewood	(Requires 110.9 Hz tone, CTCSS) IRLP Node 4282
224.90/R-	• Lakewood	(141.3 Hz tone, CTCSS)
444.40/R+	• Macedonia	(Requires 131.8 Hz tone, CTCSS)
444.70/R+	• Lakewood System Fusion	Digital Repeater

INTERNET:

- www.leara.org
- To subscribe via e-mail, send a message to: **spirit76-request@leara.org**
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