



# The Spirit of '76 and '88



March

Newsletter of the  
Lake Erie Amateur Radio Association

2021

Carsten Lohrmann, KD8WBB, Editor



Transmitter hunting (also known as T-hunting, fox hunting, bunny hunting, and bunny chasing), is an activity wherein participants use radio direction finding techniques to locate one or more radio transmitters hidden within a designated search area. Transmitter hunting is pursued in several different popular formats. Many transmitter hunts are organized by local radio clubs, and may be conducted in conjunction with other events, such as a radio enthusiast convention or club meeting. Before each hunt, participants are informed of the frequency or frequencies on which the transmitters will be operating, and a set of boundaries that define a search area in which the transmitters will be located. Transmitter hunters use radio direction finding techniques to determine the likely direction and distance to the hidden transmitter from several different locations, and then triangulate the probable location of the transmitter.

Source: [https://en.wikipedia.org/wiki/Transmitter\\_hunting](https://en.wikipedia.org/wiki/Transmitter_hunting)

## LEARA March 30. Meeting **Virtual Meeting - Online**

Fox hunting for new  
Hams or beginning  
Fox hunters.

Bryan Torok,  
N8OOF

March 30.  
7:30 p.m.



Click or  
scan to join

## The Prez Says by Bryan Torok, N8OOF

**Learn Dues Renewal:** It is that time of year. If you have already paid your dues, thank you for being a valued contributing member. If you have not paid your dues, well, we are going to miss you. We allow a grace period until the end of March. You can renew online at <https://www.leara.org/club-information/membership-renewal> and you don't even need a stamp.

**The February Meeting** was a presentation by our own **Jeff Covelli, WA8SAJ**, on a modern

... continue on page 2



**Prez cont.**

<b>OFFICERS and TRUSTEES</b>	
<b>Bryan Torok President</b>	N8OOF btorok@sbcglobal.net
<b>Eric Jessen VP, License Trustee</b>	N8AUC 440-554-3057
<b>Jeff Garvas Sec'y-Treasurer</b>	N8YNR 216-496-3928
<b>TRUSTEES</b>	
<b>Marv Grossman Membership</b>	W8AZO 440-248-0031
<b>Robert Wright, II Vice President</b>	KE8CEO 216-502-1552
<b>Steve Spisak Trustee</b>	K8SAS 216-533-7300
<b>Eddie Stevens Venue</b>	KD8FTS 440-668-7409
<b>Ted Alexander Trustee</b>	W8IXY amfmtv@aol.com
<b>Jon Anhold Trustee</b>	KM8V km8v@arrl.net
<b>TRUSTEES EMERITI</b>	
<b>Al Amster</b>	W8TTY (SK)
<b>Don Raith</b>	N8DJG (SK)
<b>Fred Collins</b>	W8ADW(SK)
<b>John Radney</b>	KC8FOC(SK)
<b>Pat Shreve</b>	W8GRG (SK)
<b>Al Severson</b>	AB8P (SK)
<b>Dave Foran</b>	WB8APD (SK)
<b>Bob Winston</b>	W2THU
<b>POINTS OF CONTACT</b>	
<b>Carl Gedeon "Sunshine"</b>	KB8VXE 440-243-5710
<b>Bryan Torok Radio Officer</b>	N8OOF btorok@sbcglobal.net
<b>Dave Andrzejewski Radio Officer</b>	AD8G 330-353-9754
<b>NEWSLETTER</b>	
<p><i>The Spirit of '76 &amp; '88</i> 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><b>Editor:</b> Carsten Lohrmann, KD8WBB E-mail: editor@leara.org</p> <p><b>Proofreading:</b> TNX to W8AZO, N8YNR</p>	

v04/2020-11-16

and clean alternative for home backup power or power while camping. Jeff explained how he started with gasoline generators but moved to **lithium powered generator/inverters**. The inverter Jeff uses is available at Lowe's under the EGO brand. These use rechargeable lithium batteries to provide 120 VAC. One of the big features of this unit is that it uses multiple hot-swappable batteries. Jeff has 12 batteries that he also uses to power his lawn mower, edger, and snow blower, which means he well positioned for providing back up power. Besides charging from the mains power, in a pinch Jeff can recharge the batteries from his car.

He uses a manual transfer switch to get the power into his house wiring to be able keep his family comfortable in the event of mains power outage. During a three-day outage he was able to provide power for his furnace, microwave, coffee pot, lighting, and yes, even his ham radios. Jeff has also used this system for power on camping trips.

**The March Meeting** will include a presentation by yours truly on **Fox hunting for new Hams or beginning Fox hunters**. While I'm going to start very basic, I will also share some hints and tips from 20+ years of experience in foxhunting. I will include a smattering of information from several areas, but I'm going to focus mostly on getting started with minimal cost and effort while getting the greatest results.

**Please share the meeting info** on any nets you might be on, with other Ham Radio clubs, and with anyone who you think might be interested in this presentation. Attendees **DO NOT** need to be members of LEARA or even Hams. And, plan to join us early for chat time prior to the meeting. All meetings are planned to be via Zoom through May of 2021. Thanks to **Hamfest**

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](http://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 or, if situation requires, in a virtual conference meeting online. 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 or in a virtual conference room online.

Contact a trustee or check the website at [www.leara.org](http://www.leara.org) for details.

## Prez cont.

**Association of Cleveland (HAC.org)** for the use of the Zoom video conferencing.

**Skywarn Spotter Training:** The NWS office in Cleveland will not be holding any resident (in person) Skywarn classes for Spring 2021. All Spotter Training will be conducted online. There are still a couple of sessions available this year. The schedule and registration is at: [https://www.weather.gov/cle/SKYWARN\\_schedule](https://www.weather.gov/cle/SKYWARN_schedule)

**Skywarn Net Control Station (NCS) Training:** If you have an interest in serving as a Net Control Station for your local Skywarn Net, training is being offered for both Cuyahoga and Geauga Counties. Training will be via Zoom on Sunday, March 28, at 2:00 P.M. EST and Wednesday, March 30, at 7:00 P.M. For more info and the Zoom links see: <https://ohiogears.org/calendar/>

**Until next month**, stay home, talk on the radio, and use the repeaters more. Join us at a virtual meeting. Avoid close contact with other people, wash your hands frequently, use a mask in public, and stay healthy. Get your vaccine shots (and a flu shot) when they are available. We really want to see you when this health crisis is over with and we get back to in-person meetings.

### Membership renewals!

Please be aware that membership renewals are due!

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>



## 146.760 Repeater Maintenance Update

by David Andrzejewski, AD8G

On March 26th, I will shut down the .76 repeater for a period of several weeks. Bill Hess and I have spent countless hours at the site over the past few years trying to resolve various issues, mostly relating to the quality of the audio and a persistent hum on the signal. There are also issues with link receivers. On Sunday, we found a leaking capacitor in one of the voter cards which we promptly replaced with a spare. It seems like every time we fix something, a new problem crops up.

Therefore, I intend to tear down and rebuild .76 - using existing parts where possible; I'm not opposed to replacing aged-out parts with newer ones, but we need to be smart about it. This will allow me to go over every individual component with a fine-toothed comb, get everything fully tested, and give me a chance to re-do the wiring which has become a bit of a mess.

I appreciate your continued patience while we get this done. I'll provide updates as time allows. For now, please use the .88 repeater, which should be back on the air by the time you read this.





## 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 February					
AB8MD	Andy	KB8VXE	Carl	N8OOF	Bryan
AB8UM	Mike	KB8WUA	Leon	N8TCK	Dan
AC8JR	Andy	KC8FQV	Mark	N8UPZ	Bill
AD8G	Dave	KC8KSU	Sarah	W8IE	Ed
K2WJS	BILL	KD8HZV	Frank	W8IXY	Ted
K8ADS	Allen	KD8WBB	Carsten	W8PKT	William
K8ARP	Arp	KE8NNC	Brian	W8TAB	Tom
K8EHP	Mike	KG8DN	Ken	WA8ZHN	Jim
K8RJH	Ron	KM8V	Jon	WB8PHI	Larry
K8SAS	Steve	N8AUC	Eric	WB8ROK	Ed

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

For March, April and May, the tentative scheduled NCOs are:

Please check the website for current assignments.

--- click ---

NCOs

Net Control Schedule			
03/25/21	Steve	K8SAS	
04/01/21	Jon	KM8V	
04/08/21	Mike	AB8UM	
04/15/21	Ed	W8IE	
04/22/21	Carl	KB8VXE	
04/29/21	Eric	N8AUC	
05/06/21	Ken	KG8DN	
05/13/21	Jon	KM8V	
05/20/21	Mike	AB8UM	
05/27/21	Ed	W8IE	

AB8UM	MIKE	KG8DN	KEN
K8SAS	STEVE	KM8V	JON
KB8VXE	CARL	N8AUC	ERIC
KD8ACO**	DAVID	W8IE	Ed

\*Short time leave \*\*Long term leave

## The Wednesday Night Skywarn Practice Net

Skywarn is currently on Hiatus. Skywarn season runs from April through September. Skywarn nets are held on LEARA's 146.760 repeater every Wednesday at 8:30 p.m. with a simplex net that follows on 146.475. Nets are activated any time the National Weather Service issues a severe thunderstorm or tornado warning for Cuyahoga county. Visit [www.ccskywarn.org](http://www.ccskywarn.org) for more information.

## ARES

ARES nets are held every Tuesday at 8 p.m. on 145.410 +110.9. A simplex net will be held afterwards. Ares Meetings will still be held via Zoom. The next meeting is March 7, 2021 at 2 p.m. Please monitor the ARES website at [www.n8esg.org/ares](http://www.n8esg.org/ares) for information on nets and events. Please note that as of now the Cleveland Marathon is still scheduled on May 15 & 16. Feel free to sign up. You do not have to be an ARES member to participate.

## Thursday Net NCOs

Do you know K2??? How about ??UPZ? Do you recognize the voice. Have you met them in person? What about N8OOF? A great way to learn who these voices belong to is to be a net controller! Consider being a net controller.

HELP! We have several people who are on temporary leave of duty. We can always use more LEARA Members to be-come Net Control Operators (NCOs). It's an easy to learn job that is very important in emergencies.

We look forward to your participation!

**Carl, KB8VXE, E-Mail: [kb8vxe@arrl.net](mailto:kb8vxe@arrl.net)**

## Sunshine

• Best wishes for a quick recovery goes to Don Byrer N0DLB (aka ND8B, KJ5KB) who slipped on some ice and couldn't get up. Don had to undergo surgery to repair broken bones. Besides being a LEARA member, Don was also the local coordinator for Skywarn before moving to Kansas.



## Volunteer Exam Dates and Locations

from [www.arrl.org](http://www.arrl.org)



Due to the Coronavirus outbreak, please verify with your VE team that the exam session is being held.

**04/03/2021 | [Painesville OH 44077](#)**

**Sponsor:** Lake Cty ARA

**Location:** Lake Cty Historical Society

**Time:** 12:00 PM (Walk-ins allowed)

[Learn More](#)

**04/27/2021 | [Westlake OH 44145](#)**

**Sponsor:** AD0VR

**Location:** Dover Masonic Temple

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

[Learn More](#)

**05/09/2021 | [Independence OH 44101](#)**

**Sponsor:** CARS Cuyahoga ARS

**Location:** To Be Determined

**Time:** 9:00 AM

(No Walk-ins / Register or Call ahead)

[Learn More](#)

**06/05/2021 | [Kirtland OH 44094](#)**

**Sponsor:** Lake County ARA

**Location:** Kirtland Library

**Time:** 12:00 PM (Walk-ins allowed)

[Learn More](#)

**06/29/2021 | [Westlake OH 44145](#)**

**Sponsor:** AD0VR

**Location:** Dover Masonic Temple

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

[Learn More](#)

## Upcoming Hamfests and Conventions

from [www.arrl.org](http://www.arrl.org)



Due to the Coronavirus outbreak, please verify the websites of the hamfests and conventions if the event is being held.

**04/10/2021 - [Cuyahoga Falls](#)  
[ARC Annual Hamfest](#)**

**Location:** Cuyahoga Falls, OH

**Type:** ARRL Hamfest **CANCELED**

**Sponsor:** The Cuyahoga Falls

Amateur Radio Club, Inc.

**Website:** <http://www.cfarc.org/hamfest.php>

[Learn More](#)



**Dayton Hamvention  
2021**

**CANCELED**

### COVID-19 (Coronavirus) Cancellations

David Andrzejewski is maintaining a list that's as comprehensive as possible of ham radio-related events that are canceled due to COVID-19. You can check it out here:

<https://geaugaara.org/coronavirus/>

You are also encouraged to submit new data, so the list keeps getting better; keeping us all up-to-date on all cancellations.

Sun	Mon	Tue	Wed	Thu	Fri	Sat
21 <b>March</b>	22	23 7:15 p.m. ARES 80m OSSB 8 p.m. OHDN	24	25 8 p.m. LEARA VOICE 146.76/R	26	27
28	29	30 7:15 p.m. ARES 80m OSSB 7:30p.m. LEARA Virtual meeting 8 p.m. OHDN	31	1 8 p.m. LEARA VOICE 146.76/R	2 <b>April</b>	3
4 Easter Sunday	5	6 7:15 p.m. ARES 80m OSSB 8 p.m. OHDN	7	8 8 p.m. LEARA VOICE 146.76/R	9	10
11 Lake County 10 Mile Drop	12	13 7:15 p.m. ARES 80m OSSB 8 p.m. OHDN	14	15 8 p.m. LEARA VOICE 146.76/R	16	17
18	19	20 7:15 p.m. ARES 80m OSSB 8 p.m. OHDN	21	22 8 p.m. LEARA VOICE 146.76/R	23	24 NVIS Day
25	26	27 7:15 p.m. ARES 80m OSSB 7:30p.m. LEARA Virtual meeting 8 p.m. OHDN	28	29 8 p.m. LEARA VOICE 146.76/R	30	1

Puzzle 2 (Medium, difficulty rating 0.53)

					2		8	
			6	8		7		
6					7		2	5
3		7	9					4
8	5						6	1
2					6	8		7
1	8		5					2
		6		2	4			
	7		8					

## Skywarn Practice

There will be no spring in-person training by the NWS this year. Instead they are offering seven (7) online training sessions March 2 thru April 6. You can register for these sessions at [www.weather.gov/cle/SKYWARN\\_schedule](http://www.weather.gov/cle/SKYWARN_schedule)

**LAKE ERIE AMATEUR RADIO  
ASSOCIATION  
TRUSTEES' MEETING MINUTES**

Saturday, 13th March 2021, held virtually in a  
Zoom Video Conference

(Subject to Revision)

**Attendance:**

Jeff N8YNR, Bryan N8OOF, Eddie KD8FTS,  
Eric N8AUC, Marv W8AZO, Ted W8IXY,  
Robert KE8CEO, Jon KM8V, Steve K8SAS

**Guests:**

Bob W2THU, Carsten KD8WBB,  
Carl KB8VXE, David AD8G

**1. Call to Order**

N8OOF Bryan called the meeting to order  
promptly at 9:25 a.m.

**2. January minutes**

Ted Moved, Jon seconded to accept the  
meeting minutes of the January meeting. The  
motion carried.

**3. Treasurer's Report**

N8YNR reported the current balance with  
the 2021 insurance bill of just over \$400  
reflected as paid in that balance.

**4. Audio issues on 146.76 repeater**

Discussion took place on the state of audio  
issues with 146.76. Dave Andrewjewski  
continues to work with Bill Hess to address  
possible causes and resolution.

**5. Meetings**

Eddie Stevens brought up that CARS is  
meeting in person and the prospects of us  
returning to in-person meetings. No formal  
decision was made.

**6. Virtual Raffles**

Bryan brought up an effort to bring 50/50  
raffles to our online meetings. Eddie Stevens  
is looking into what it will take to support  
this.

**7. Various**

No other motions of substance were offered  
or voted upon at this meeting.

**8. Adjournment**

Motion to adjourn by Eric, seconded by Jon.  
The meeting ended at 10:07am.

Respectfully submitted,

**Jeff Garvas - N8YNR**

Secretary/Treasurer

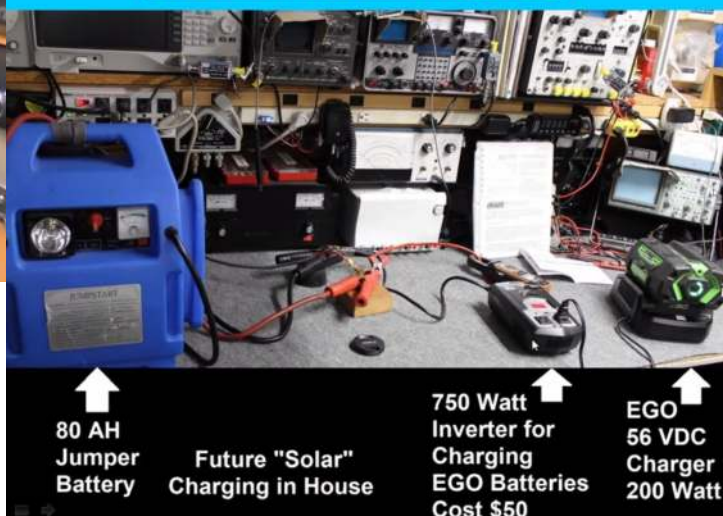


# Emergency Power Generator for your Home

Jeff Covelli, WA8SAJ  
23th February 2021



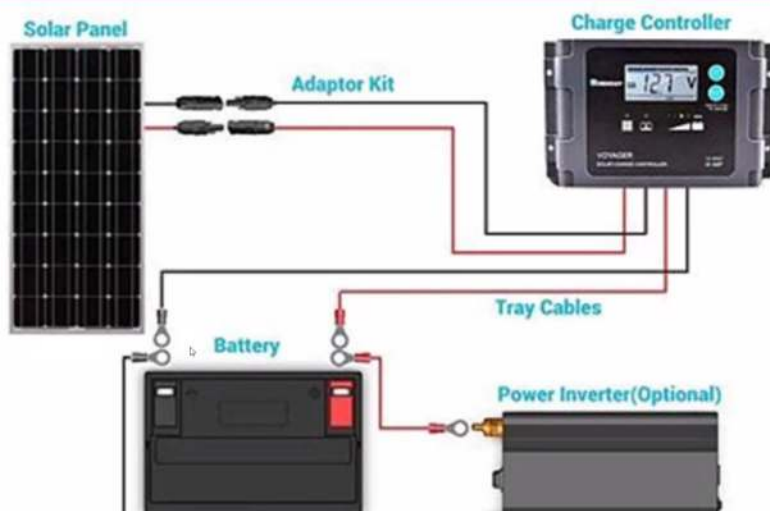
## In house charging



Find all the mentioned links and products in this link collection:

[https://www.leara.org/files/Presentations/Supporting/Battery\\_Powered\\_Portable\\_Power\\_Generators.pdf](https://www.leara.org/files/Presentations/Supporting/Battery_Powered_Portable_Power_Generators.pdf)

## Do It Yourself (DIY) wiring

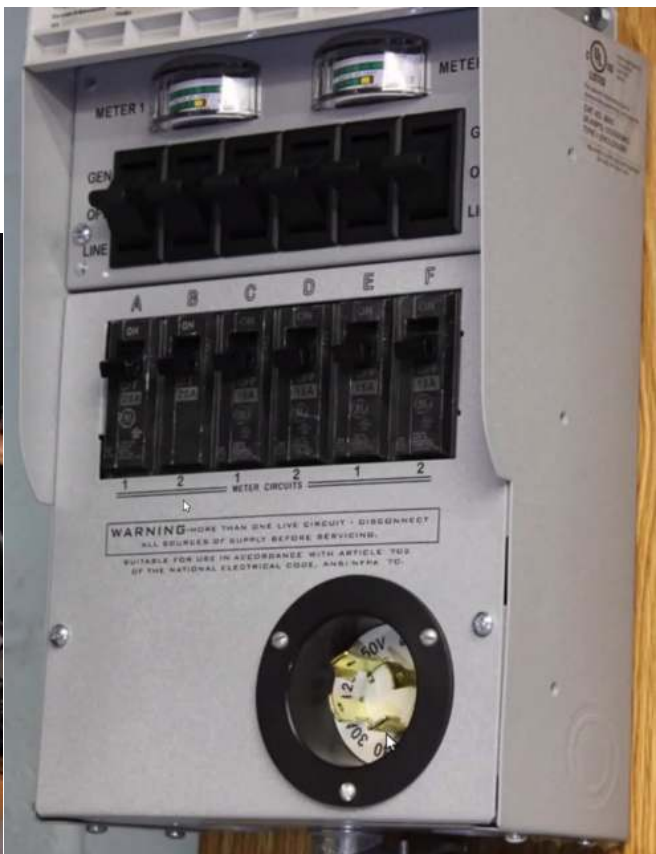


## Total power & battery condition





Zoom Video Conference  
Room  
sponsored by  
**Hamfest Association of  
Cleveland.**  
We say **THANK YOU.**



## ARISS Ham Station Is Once Again Operational

03/15/2021

from: <http://www.arrl.org/news/view/ariss-ham-station-in-columbus-module-is-once-again-operational>

Some 6 weeks after going silent following a spacewalk that installed new antenna cabling, the Amateur Radio on the International Space Station (ARISS) ham station in the Columbus module is once again operational. The Columbus station, which typically uses the call sign NA1SS, is the primary ARISS amateur radio station used for school contacts and other activities. A January 27 spacewalk replaced a coax feed line installed 11 years ago with another built by the European Space Agency (ESA) and Airbus.

While the specific cause of the problem has not yet been determined, a March 13 spacewalk that restored the antenna cabling to its original configuration provided the cure. The plan to return the ARISS cabling to its original configuration had been a "contingency task" for a March 5 spacewalk, but the astronauts ran out of time. The ARISS work was appended to the to-do list for astronauts Mike Hopkins, KF5LJG, and Victor Glover, KI5BKC, to complete a week later.

"On behalf of the ARISS International Team, our

heartfelt thanks to all who helped ARISS work through the cable anomaly investigation, troubleshooting, and ultimate repair," ARISS International Chair Frank Bauer, KA3HDO, said. Bauer praised NASA, the ESA, Airbus, and ARISS-Russia lead Sergey Samburov, RV3DR. While the Columbus ham station was off the air, ARISS school and group contacts were able to continue using the ham station in the ISS Service Module on the Russian side of the station.

During the weekend spacewalk, Hopkins swapped out a cable for the Bartolomeo commercial payload-handling platform that had been installed in series with the ARISS VHF-UHF antenna feed line, returning the ARISS system to its pre-January 27 configuration. Hopkins raised a question concerning a sharp bend in the cable near a connector, but no further adjustments were possible.

On March 14, ARISS was able to confirm the operation's success when Automatic Packet Reporting System (APRS) signals on 145.825 MHz were heard in California, Utah, and Idaho as the ISS passed overhead. ARISS team member Christy Hunter, KB6LTY, was able to digipeat through NA1SS during the pass. With additional confirmation from stations in South America and the Middle East, ARISS declared the radio system operational again.

---

## LEARA — The Lake Erie Amateur Radio Association

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

### VOICE REPEATERS:

<b>146.76/R-</b>	• Highland Hills	(Requires 110.9 Hz tone)
<b>146.88/R-</b>	• Lakewood	(Requires 110.9 Hz tone)
<b>224.90/R-</b>	• Lakewood	(Requires 141.3 Hz tone)
<b>444.40/R+</b>	• Macedonia	(Requires 131.8 Hz tone) (Offline)
<b>444.70/R+</b>	• Lakewood	<b>Digital System Fusion</b> & Analog (Req. 131.8 Hz tone)

### INTERNET:

- [www.leara.org](http://www.leara.org)
- To subscribe via e-mail, send a message to: **spirit76-request@leara.org**  
Put "**subscribe**" in the subject area and your name and call sign in the body.  
Those who subscribe via e-mail will not receive a paper copy of the newsletter.