

February

The Spirit of '76 and '88



Newsletter of the

Lake Erie Amateur Radio Association

2022

Carsten Lohrmann, KD8WBB, Editor





Mat Nickoson will update us about recent news from the Event Support Group and will give an overview of the Communications Truck they built.



LEARA February Meeting

Virtual Meeting - Online

Event Support Group Mat Nickoson, KC8NCJ February 22. 7:30 p.m.



Click or scan to join

The Prez Says by Bryan Torok, N8OOF

The January 2022 meeting was held via Zoom. Dave Andrzejewski, AD8G, gave an updated presentation on



the **Automatic Packet Reporting System** (APRS). I must say that I was amazed. I've seen several presentations on APRS and wasn't expecting anything new. But, Dave made the presentation very interesting and along the way I learned some new things about the capabilities

... continue on page 2

Prez cont.

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NEWSLETTER

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.

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and use of APRS. I've always associated APRS with vehicle tracking and location as that is how I've seen it used at public service events. That led me to always thinking of the "P" as standing for "position," which is incorrect. In reality, it stands for "packet."

From **aprs.org**: "APRS is not a vehicle tracking system. It is a two-way tactical real-time digital communications system between all assets in a network sharing information about everything going on in the local area. On ham radio, this means if something is happening now, or there is information that could be valuable to you, then it should show up on your APRS radio in your mobile." That information can include current weather conditions, a list of repeaters in an area, as well as hams who may be traveling and other frequencies they are monitoring.

The February 2022 meeting will be (was, by the time you read this, with apologies) held via Zoom. The speaker for our February meeting will be Mat Nickoson, KC8NZJ, talking about the Event Support Group and Public Service. I'm betting he will have some neat pictures of the Hambulance, a mobile command center for Ham Radio.

The meeting time will be at 7:30 P.M. The link will be sent out as usual. Thanks to the **Hamfest Association of Cleveland** (HAC.org) for the use of the Zoom video conferencing.

Future meetings:

The March meeting presenter will be **Tim Duffy, K3LR**, of DX Engineering with a presentation on **Grounding and Bonding in the Ham Shack**. Our April meeting will feature **Mat Nickoson, KC8NZJ**, with a presentation about **Skywarn**.

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 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 for details.

Prez cont.

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 event. Attendees DO NOT need to be members of LEARA or even Hams.

Big Changes for CB Radio

Many Hams, myself included, got their start in two-way radio in Citizens Band (CB) radio. During the 1970s, 23 channel and later 40 channel solid state radios were relatively inexpensive. CB radio was originally intended for short range personal communication. Also, originally a license and call sign were required and certain channels were reserved for interstation and intra-station communications. By the late 1970s, most of that had gone away. Clubs were formed and groups would meet for public service and socializing. And, people began using "skip" for long range contacts similarly to Hams on HF. After all, the CB band is on 11-meters, right next to the Ham 10-meter band.

As CB was originally constituted, amplitude modulation (AM) was the primary form of modulation with single sideband (SSB) rarely used as it was generally only available on expensive upper and units. These days, the cheaper CB radios are AM only, but SSB capable radios are far more common.

In 2017, Cobra Electronics Corporation (Cobra) petitioned the FCC to add frequency modulation (FM) to radios it sold in the USA. A leading competitor, Group President Electronics USA (manufacturers of President CB radios), supported Cobra's request. According to an FCC Fact Sheet published in July 2021, both companies pointed out the benefits of FM.

"[Cobra] argues that a dual modulation approach has been used successfully in other countries for many years," the FCC Fact Sheet states. "Cobra and others suggest that an FM option will benefit the CB radio user—both professional and recreational—in that it will provide better quality and clarity of communications." Further, Group President Electronics USA believes "that AM and FM each have unique advantages and together provide a better user experience for CB radios." Many people think that Cobra and President are hoping to revitalize CB radio in the USA and thus sell more radios.

The FCC granted the petition effective October 28, 2021. We should be seeing CB radios with FM as one of the modes by early to mid-2022.

FM on CB radio has been legal in the UK since 2006 and most of Europe for at least the last 10 years. In fact, CB radio has evolved rather differently in Europe from the USA. While all of the frequencies have remained in the 27 MHz band, many of the specific frequencies used are different from the 40 channel plan specified in the USA. There are frequencies reserved for LSB, USB, Packet, and PSK31, as well as frequencies generally recognized for calling North America and South America.

They are doing all sorts of activities on CB that we associate with Amateur Radio in the USA including: IOTA, POTA, SOTA, SSTV, digital modes, special events, and DX clubs.

It will be very interesting to see how CB evolves in the next few years. Perhaps it will bring a new crop of people interested in playing radio. If that occurs, we may eventually see some who will take the next step into Amateur Radio.

Until next month, talk on the radio and use the repeaters. Check into one of the many nets available on the LEARA repeaters. Join us on the air, online, or in person. If you don't feel safe meeting in person due to the pandemic, we understand. But, we really want to see or at least hear from you, even if it is only by Radio or Zoom.



LEARA "On the Air"

Club Net Information by Carl Gedeon, KB8VXE

The **Thursday Club Net** is held 8 p.m. on our 146.760 (or 146.880 backup) MHz (-600 kHz offset, PL 110.9) repeater. Note that the '76

repeater is back in service. All nets will be held on this repeater. Please use it and notify any trustee of any troubles or issues.

	January 2022 Checkins					
AB8UM	Mike	KC8FQV	Mark	ZHABN	Fred	
AC81K	Andy	KD8AIR	Rudy	NBAUC	Eric	
AD8G	Dave	KD8AJZ	Rich	NBOWK	Mike	
AF8A	Gary	KEBNNC	Brian	NBUPZ	Bill	
K2WJS	BILL	KE8PMM	Bill	WBDKA	Doug	
KBARP	Arp	KE8RGC	John	WBIE	Ed	
K8EHP	Mike	KEBRMV	Shawn	WBIXY	Ted	
KBBJH	Ron	KEBTLB	Randy	W8SDG	Sean	
KBSAS	Steve	KE8TLG	Jim	WA8ZHN	Jim	
KB8VXE	Carl	KG8DN	Ken			

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

For F	ebruary,		Net Control Scheo			le
	arch and		2/24/22	Mike	A	B8UM
	pril, the	03	3/03/22	Ed	W	'8IE
	entative		3/10/22	Carl	K	B8VXE
sc	heduled		13/17/22	Eric	N	BAUC
NO	COs are:		3/24/22	Steve	K	2A28
			3/31/22	Ken	KG8DN	
Please check		04/07/22		Jon	KMBV	
the website for		04/14/22		Mike	AB8UM	
current			14/21/22	Ed	W	'8IE
assignments.		04	4/28/22	Carl	KB8VXE	
click		05/05/22		Eric N8AUC		BAUC
						1/51
	AB8UM		MIKE	KG8DN		KEN
S	KB8AXE K82VZ		STEVE	KMBV		JON
00			KBBVXE		CARL	NBAUC
Z	KD8ACO**		DAVID	WBIE		Ed
*Short time leave **Long term leave						

The Wednesday Night Skywarn Practice Net

The Skywarn season runs from April through September. The Skywarn practice nets are now on winter hiatus. Should the National Weather Service issue a severe weather alert, a Skywarn net will be started on the 146.760 repeater.

Visit www.ccskywarn.org for more information and training sessions.

ARES

ARES nets are held every Tuesday (Except the first Tuesday of the Month) at 8PM on 145.410 (+)110.9. A simplex net will be held afterwards. ARES Meetings and Nets are resuming in January. The next ARES meeting will be on the first Tuesday of the month starting in January 4, and February 1, 2022, It will be held in the meeting room at the Helwig Whistle Stop 599 West Bagley Rd. Berea, OH. at 2PM. The March meeting will be held at the County Emergency Operations Center at E93 and Quincy Ave. Please register for this event on the calendar at n8esg.org/events. Please monitor the ARES website at www.n8esg.org/ares for information on nets and events. www.n8esg.org/events.

There is a new ARES DMR practice net. It is Scheduled for Thursdays an 7:30PM on talk group 31395.

Thursday Net NCOs

Do you know K2??? How about ??UPZ? A great way to learn who these voices belong to is to be a net controller! Consider being a net controller.

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

Sunshine

We are looking for someone to take over the Sunshine duties. You do not have to be a trustee to perform these duties. If you would like more information or would like to help out, please contact Carl Gedeon (kb8vxe@leara.org) or any of the trustees.

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

Puzzle 1 (Medium, difficulty rating 0.53)

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

Volunteer Exam Dates and Locations

from www.arrl.org



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

03/13/2022 | Independence OH 44 131

Sponsor: Cuyahoga ARS

Location: Old Elmwood Recreation Center

Time: 9:15 AM (Walk-ins allowed)

Learn More

04/02/2022 | Kirtland OH 44 094

Sponsor: Lake County ARA **Location:** Kirtland Library

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

Learn More

Upcoming Hamfests and Conventions

from www.arrl.org



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

03/13/2022 - Winter Hamfest

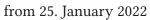
Location: Elyria, OH Type: ARRL Hamfest Sponsor: NOARS

Learn More



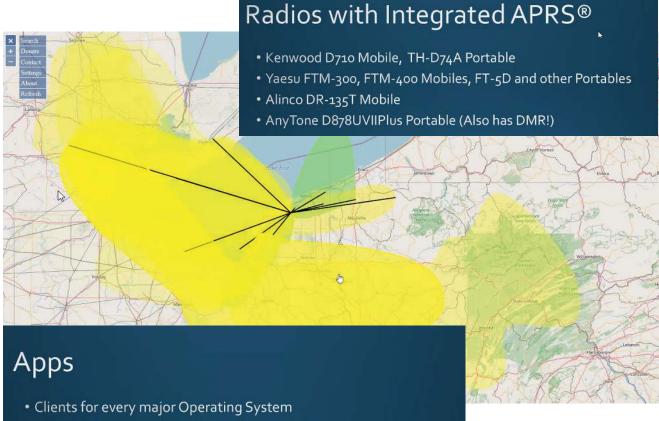
APRS

Dave Andrzejewski, AD8G









- Android aprsDroid by Georg Lukas (DO1GL)
- iOS PocketPacket (SV1OAN), HamTracker, APRS Pro, aprs.fi
- Windows APRSISCE/32, SARTrack
- Linux/Unix Xastir, APRSISCE/32 and others via Wine
- MacOSX Xastir, PocketPacket
- Cross-Platform YAAC (Yet Another APRS Client) KA2DDO

Interfaces

- You don't need a radio with integrated APRS!
- TNCs
 - Kantronics KPC-3
 - Byonics TinyTrak4 (\$85)
 - Argent OpenTracker USB (\$45)
 - Mobilinkd (\$125)
 - TNC-X
 - TNC-Pi (\$60)
- Sound Card Interface (such as the TigerTronics SignaLink)
 - Requires free software like Direwolf

Sun	Mon	Tue	Wed	Thu	Fri	Sat
20 Febr	21 uary	22 6:30p.m. LEARA meeting 7:15 p.m. ARES 80m OSSB 7:45 p.m. OHDN	23	24 7:30 p.m. ARES DMR TG:31395 8 p.m. LEARA VOICE 146.76/R	25	26
27	28	7 p.m. Cuyahoga ARES Meeting 7:15 p.m. ARES 80m OSSB 7:45 p.m. OHDN	March	3 7:30 p.m. ARES DMR TG:31395 8 p.m. LEARA VOICE 146.76/R	4	5
6	7	8 7:15 p.m. ARES 80m OSSB 7:45 p.m. OHDN	9	10 7:30 p.m. ARES DMR TG:31395 8 p.m. LEARA VOICE 146.76/R	11	9:15 a.m. Trustee's Meeting
13 Daylight Saving Time	14	15 7:15 p.m. ARES 80m OSSB 7:45 p.m. OHDN	16	17 St. Patrick's Day 7:30 p.m. ARES DMR TG:31395 8 p.m. LEARA VOICE 146.76/R	18	19
20	21	22 7:15 p.m. ARES 80m OSSB 7:45 p.m. OHDN	23	24 7:30 p.m. ARES DMR TG:31395 8 p.m. LEARA VOICE 146.76/R	25	26
27	28	29 6:30p.m. LEARA meeting 7:15 p.m. ARES 80m OSSB 7:45 p.m. OHDN	30	31 7:30 p.m. ARES DMR TG:31395 8 p.m. LEARA VOICE 146.76/R	1	April



Geomagnetic Storm Leads to Loss of up to 40 Starlink Satellites

02/10/2022 - from:http://www.arrl.org/news/geomagnetic-storm-leads-to-loss-of-up-to-40-starlink-satellites

A geomagnetic storm on February 4 "significantly impacted" the launch of some 49 Starlink satellites. The company said the satellites were intended to achieve low-Earth orbits after being sent aloft on a Falcon 9 launcher. Starlink is a satellite internet constellation operated by SpaceX to provide satellite internet access. SpaceX said it initially deploys its satellites into low-Earth orbit so that "in the very rare case any satellite does not pass initial system checkouts, it will quickly be deorbited by atmospheric drag." All did not go as planned, however.

"Unfortunately, the satellites deployed on February 3 were significantly impacted by a geomagnetic storm on Friday [February 4]," SpaceX announced this week. "These storms cause the atmosphere to warm and atmospheric density at our low-deployment altitudes to increase. In fact, onboard GPS suggests the escalation speed and severity of the storm caused atmospheric drag to increase up to 50% higher than during previous launches."

The satellites were commanded into a safe mode, where, as SpaceX explained, "they would fly edge-on (like a sheet of paper) to minimize drag — to effectively 'take cover from the storm' — and continued to work closely with the Space Force's 18th Space Control Squadron and LeoLabs to provide updates on the satellites based on ground radars."

A preliminary analysis showed that the increased drag at the low altitudes prevented the satellites from being moved into higher orbit, and up to 40 of the satellites will reenter, or already have reentered, Earth's atmosphere.

"The deorbiting satellites pose zero collision risk with other satellites, and, by design, [burn up] upon atmospheric reentry — meaning no orbital debris is created and no satellite parts hit the ground," SpaceX said.

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)
146.88/R-	 Lakewood 	(Requires 110.9 Hz tone)
224.90/R-	 Lakewood 	(Requires 141.3 Hz tone)
444.40/R+	 Macedonia 	(Requires 131.8 Hz tone) (Offline)
444.70/R+	 Lakewood 	Digital System Fusion & Analog (Req. 131.8 Hz tone)

INTERNET:

- www.leara.org
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