

The Spirit of '76 and '88



April

Newsletter of the Lake Erie Amateur Radio Association

2013

Editor: Ken Kane, KG8DN



Returning to LEARA Tuesday, April 30
Bill Fraedrich, WB9LBI, with
Updates on Traffic Handling

Long before there was anything like email or texting, hams were passing messages by radio via specialized nets. Every day, hundreds if not thousands of messages are moved efficiently throughout the USA and Canada by means of amateur radio traffic nets.

Bill Fraedrich, WB9LBI, a Portage County amateur widely known for his CW and SSB traffic handling skills, returns to LEARA to share his vast experience in traffic handling.

"This is a skill that every emergency communicator should master," he asserts. In all of his presentations, Bill is not content with just telling us about the subject. On Tuesday, April 30, at the meeting he will DEMONSTRATE how it is done.

Bring your HT ALONG to participate!

Bill Fraedrich, WB9LBI, a frequent participant as the "CW Liaison" for various traffic nets, has been involved in traffic handling on the National Traffic System since the early 1970s. He is one of the few people you could meet who was paid full-time to handle messages as an Army MARS station operator in Germany. There, while operating the station, Bill set up phone patches to connect the troops with their families back home, and sent message traffic, among his many duties at the station.

Dinner will be served at 6:30 PM and Bill's program will begin around 7:30.

Meetings are open to all interested persons. You may attend without eating, but reservations are required if you do wish to eat.

On April 30, LEARA gets <u>large first floor room</u> at **Stancato's in Parma**

7380 State Rd., Parma, Ohio 44134
On State Road just north of Pleasant Valley Road
Exit I-71 at Bagley Road and Go East, or take
I-480 to I-77 South, then Pleasant Valley Road West



Photo by Tom Parkinson, KB8UUZ

Dinner entrée choices are:

Beef Tips with Noodles Chicken Scaloppine Stuffed Shells

Side dishes with dinner are:

Salad
Au Gratin Potatoes
Buttered Sweet Corn

Your \$21. provides a main entree, the sides, and the included beverages coffee, tee or soda. Tax and tip are also included. Bar beverages can be purchased that evening at the restaurant.

See other details at www.stancatos.com.

To reserve your dinner (before 11:00 AM that day, please), either telephone Marv Grossman's line at 440-248-0031 or go to the club website...

www.leara.org. Please state the main entrée preference for yourself and for anyone else in your group.

Make your dinner reservation or just come to the meeting near the start time of 7:30 PM. We all hope to see you at Stancato's in Parma on the night of Tuesday, April 30!

-AR-

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Page 2	The Spirit of '76 and '88 ~ 43 Years of Service to the Community	April 2013

	ne Spirii oj -			
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POINTS OF CONTACT

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 Tuesdays, when the 3rd Sunday will be sufficient.)

Editor: Ken Kane, KG8DN E-mail: editor@leara.org Proofreading: TNX to

Marv, W8AZO and Jeff, N8YNR

As I get older, I have noticed that "**Motivation**" plays a bigger role in my evening and weekend activity planning than it did years ago. Recently, we have had some very nice weather over the weekend.

some very nice weather over the weekend. I got motivated to investigate some of the power utility noises that I have been hearing on the radio in my neighborhood during the winter months, ranging from S4 to S9+. I document those noises in a small notebook in my shack, with date, time, frequency, smeter signal strength, and antenna azimuth (if on a directional antenna). I also try to include notes about the humidity and temperature conditions present when those noises are occurring. In a perfect world, and according to the FCC's web site, *I am to inform the local utility company of the suspected*

The Prez Says
by Gary Zimmet, WA8TJL



interference and they will "take care of it." ... However, I know better than that because of past previous interactions with the power company. Finding these noises so they can be corrected requires the "motivation."

- ♦ What does power utility noise sound like? I have experienced two types in my neighborhood. Common power line noise- I will call it 120 hz static, it occurs as AC current attempts to flow through a poor electrical connection or across a bad insulator, and is commonly affected by humidity. It may be continuous or in bursts. Remember that the first "spark gap" transmitters generated RF energy by creating a spark. Carona noise- sounds like a "hissing" noise on a SSB, CW or AM receiver. It is not always from the power utility and is not as common.
- ◆ Inside Work I start by going to" Google Map" on my computer and print a map of my neighborhood with my address in the center, scaled so that about 2 blocks are displayed in each direction around my address.

The next step is to look at my notes and check for reports that may have a common azimuth and have been observable over time — these are the "repeat offenders" — and transfer that azimuth information to my neighborhood map with a protractor. My map now looks like a **number of strobes** radiating outward from my home, one strobe representing the azimuth to each noise source.

(Continued on page 9)

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, PO Box 22823, Beachwood, OH 44122-0823.

LEARA is an **ARRL**-affiliated club. When you join or renew the **ARRL**, **LEARA** benefits monetarily if you so through the club. Send **ARRL** Applications/renewals to Club Treasurer Dave Foran, WB8APD, 5439 Nan Linn Dr. Willoughby, OH 44094-4365. 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. Dinner is served at 6:30 p.m. The meeting begins at 7:30 p.m. Meetings are open to all interested persons. You may attend without eating, but reservations are typically required if you do wish to eat. Call Marv Grossman, W8AZO at 440-248-0031 to leave a message.

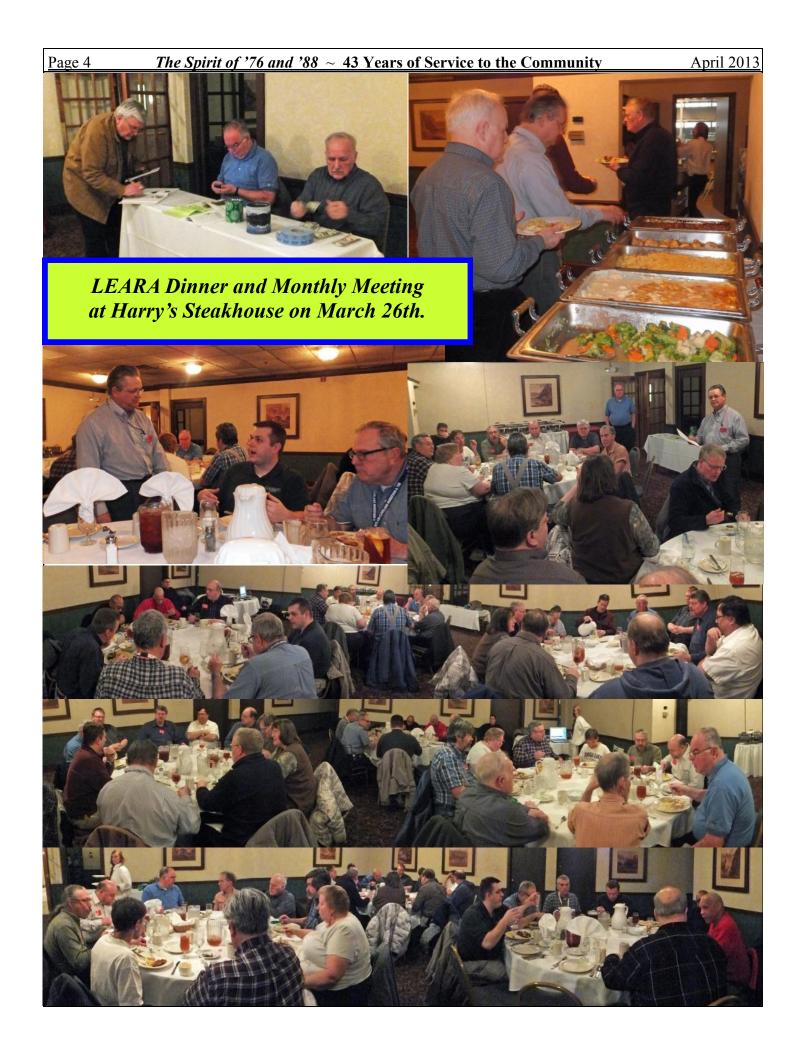
Trustees' Meetings are on the second Saturday of odd numbered months at 9 AM in a first floor room at the Highland Hills Village Hall, 3700 Northfield Road. Meetings are open to all current members of LEARA.

April 2013 The Spirit of '76 and '88 ~ 43 Years of Service to the Community Page 3						
Sun	Mon	Tue	Wed	Thu	Fri	Sat
Ap	ril	16 8 PM ARES® Cuyahoga NET '41	17 8PM Skywarn Practice '76	18 8 PM LEARA NET World Am. Radio Day	19	20
21	22	23	24 7 PM ARES®'7.015 8PM Skywarn Practice '76	25 8 PM LEARA NET '76	26	27
28	29	30 6:30 PM LEARA Stancato's in Parma	1 8 PM Skywarn Practice '76	2 8PM LEARA NET '76	3 M	lay
Sun	Mon	Tue	Wed	Thu	Fri	Sat
5	6	7 8 PM ARES® Cuyahoga NET '41	8 7 PM ARES®'7.015 8 PM Skywarn Practice '76	9 8 PM LEARA NET 9 PM DIGI NET	10	11
12	13	14	15 8 PM Skywarn Practice '76	16 8 PM LEARA NET '76	17 Dayton Hamvention	18 Dayton Hamvention
19 DHVn Cleveland Marathon email KC8PD	20	21 8 PM ARES® Cuyahoga NET '41	22 7 PM ARES®'7.015 8PM Skywarn Practice '76	23 8 PM LEARA NET '76	24	25
26	27	28 6:30 PM LEARA MiMi's Restaurant	29 8 PM Skywarn Practice '76	30 8PM LEARA NET '76	31	

The 2013 Rite-Aid Cleveland Marathon will be held on Sunday, May 19th and amateur radio volunteers from across Northeast Ohio will be providing communications support for the race. This event requires more than thirty ham radio operators over the 26-mile course that starts and finishes at the Cleveland Browns Stadium and covers a wide area over both the west and east sides of town.

If you would like to assist with this event, please contact Jim Aylward, KC8PD, at either aylwardjim@aol.com or 330-297-7979. Thanks to all who volunteer for this and other events!







LEARA "On The Air"

Club Net Information by Bill Schultz, AC8CO, and Carl Gedeon, KB8VXE



<u>The Thursday Club Net</u> is held on our 146.760 MHz (-600 kHz offset, PL 110.9) Repeater.

This past month (March), the following persons have checked into the Net:

AB8RZ	TOM	KD8SXN	RICK
AC8CO	BILL	KD8TQU	MIKE
K8ARP	ARP	KD8TWG	DAVE
K8EHP	MIKE	KG8DN	KEN
K8ISY	JOHN	N8AUC	ERIC
K8JTK	JEFF	N8DOA	BILL
K8RWC	RICH	N8ETP	TOM
K8WHB	BILL	N8JIW	DON
K8WLF	FRITZ	N8ORC	BOB
KB8MHZ	LILLIE	N8UPZ	BILL
KB8TGT	DOUG	N8UZF	SIMPSON
KB8VBR	LEONE	ND8B	DON
KB8VXE	CARL	W2THU	BOB
KB8WOQ	SCOTT	W8NRA	JOHN
KC8FQV	MARK	WA8LGM	JOHN
KC8MNW	JEANNE	WB8QLT	LINDA
KD8NVX	LEON	WB8ROK	ED
KD8QAZ	KEVIN	WD8GEO	GEORGE

For the months of May and June the scheduled NCOs are:

4/25/13	Bill	AC8CO
5/2/13	Bob	W2THU
5/9/13	Ken	KG8DN
5/16/13	Jeanne	KC8TJH
5/23/13	Eric	N8AUC
5/30/13	Matt	W8DEC
6/6/13	David	KD8ACO
6/13/13	Carl	KB8VXE
6/20/13	Jeanne	KC8TJH
6/27/13	Bob	W2THU

The Thursday ARES Digital Communications Net is held on the 146.760 MHz (-600 kHz offset, PL 110.9) on the second Thursday of every month at 9:00 PM ET. The software used for this net, FLDIGI, is available for download at http://www.w1hkj.com. FLDIGI, FLWRAP, and FLMSG are the primary components needed to participate. Since LEARA's Friday SSTV Net has been suspended, please consider joining the Thursday ARES Digital Net until the SSTV Net resumes. Eric Jessen (n8auc@hotmail.com) or David Schultz (ad8ws@arrl.net) can be contacted for further information concerning the ARES Digital Net.

The Wednesday Skywarn Practice Net

Practice Nets are scheduled each Wednesday at 8:00 PM on LEARA's 146.76 repeater. The backup repeater is our 146.88 repeater. A third repeater that is used and monitored for local traffic is the 442.125 repeater (+600 PL 82.5). This year we will be exercising techniques for running a net on simplex, (146.475) in case all repeaters should be inoperable. As always, there can never be enough net control operators. During a storm, we need net control operators and liaisons for District 2 and NWS information relays. If you would like to give us a hand please contact us at cuyahogas-kywarn@gmail.com. Be sure to visit the web page at www.ccskywarn.org.

The Thursday Club Net (continued):

The LEARA Net operations committee is composed of the Net Control Operators (NCOs), Bill (AC8CO and Carl (KB8VXE) are the present committee co-chairs

AC8CO Bill
KG8DN Ken
KB8VXE Carl
N8AUC Eric
KC8TJH Jeanne
W2THU Bob
KD8ACO David
W8DEC Matt

We need more LEARA Members to become Net Control Operators (NCOs). Okay, we said the same thing last month! But, we hear many more than us check-in to the net each week! Why not give the NCO slot a try? It's an easy to learn job that is very important in emergencies (see also the Skywarn Net). Your help is really needed!

So, if you are a LEARA member, please consider joining us as an NCO. We meet every Thursday, we learn to lead and test our radio skills, and we all want to help you be the best! Contact Bill (ac8co@arrl.net) or Carl (kb8vxe@arrl.net) via email to join us and get started.

This year "on-the-net" is going great. The fun stuff: Hamvention, Field Day, and many service events are on the horizon. Carl and I look forward to participating with you!

Bill — AC8CO -AR-



Need a RIDE to Dayton May 18th?

The CARS club (Independence) and the PARF club (Akron) are offering

one-day rides to and from the **Dayton Hamvention** starting in the wee hours on Saturday morning. Space is limited and **prices & terms differ**, so you may wish to check on these options soon. (*Hamvention admission ticket is NOT included.*.)

CARS bus: Leaves at 3:30 am from Kmart at Engle and Bagley in Middleburg Hts. and then picks up riders at 4:00 am from the Kmart lot at I-71 and Rt. 303 on the way. CARS:...www.2cars.org

<u>PARF bus:</u> Leaves 5:30 am from the Akron Baptist Temple, 2324 Manchester Road. Email or call Joy Spencer: KA8TDF@arrl.net, or 330-745-5115.

PARF:...http://www.qsl.net/w8ctt/2013%20Dayton% 20Application.htm -AR-

Upcoming Hamfests and Conventions

from www.arrl.org

04/28/2013

Athens Hamfest Location: Athens, OH Type: ARRL Hamfest

Sponsor: Athens County Amateur Radio Assn.

Website: http://ac-ara.org/

Learn More

04/28/2013

Two Rivers ARC Hamfest

Location: Boston (McKeesport), PA

Type: ARRL Hamfest

Sponsor: Two Rivers Amateur Radio Club

Website: http://www.trarc.net

Learn More

05/17/2013

<u>Dayton Hamvention</u> <u>Location:</u> Trotwood, OH <u>Type:</u> ARRL Hamfest

Sponsor: Dayton Amateur Radio Assn. (DARA)

Website: http://hamvention.org

Learn More

Volunteer Exam Dates and Locations

from www.arrl.org

04/18/2013 | Cleveland OH 44114-1130

Sponsor: NOTACON VE Team **Location:** Hilton Garden Inn **Time:** 7:00 PM (Walk-ins allowed)

Learn More

04/19/2013 | Cleveland OH 44106-1712

Sponsor: W8EDU

Location: Case Western Reserve University

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

Learn More

04/21/2013 | Elyria OH 44035-1343

Sponsor: American Red Cross Location: American Red Cross Time: 1:00 PM (Walk-ins allowed)

Learn More

04/30/2013 | Cleveland OH 44106-1712

Sponsor: W8EDU

Location: Case Western Reserve University

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

Learn More

05/09/2013 | Stow OH 44224-4097

Sponsor: Cuyahoga Falls ARC

Location: Stow-Munroe Falls Public Library

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

Learn More

05/12/2013 | Independence OH 44131-4841

Sponsor: Cuyahoga ARS Location: Town Hall

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

Learn More

05/19/2013 | Elyria OH 44035-1343

Sponsor: American Red Cross Location: American Red Cross Time: 1:00 PM (Walk-ins allowed)

Learn More

05/21/2013 | Akron OH 44314-3614

Sponsor: Pioneer AR Fellowship Location: Akron Baptist Temple Time: 7:00 PM (Walk-ins allowed)

Learn More

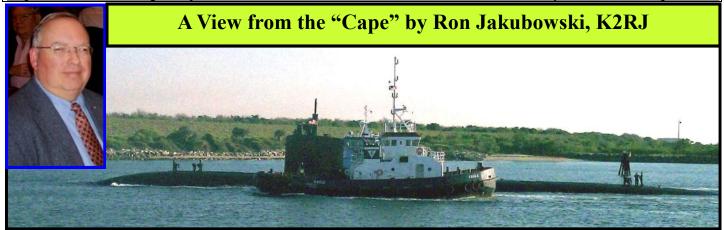
05/26/2013 | Newton Falls OH 44444-1639

Sponsor: Warren ARA

Location: Newton Falls Community Center

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

Learn More



One of the plusses of living on the beach only a mile from the entrance to Port Canaveral is the variety of ships we get to see going in and out of the harbor each day. Some days there are as many as 5 large cruise ships (carrying between 2,000 and 5,000 passengers. This morning, for example, when I woke up to "stretch my legs" about 5 a.m., I saw the **brightly-lit Carnival Pride** arriving from Baltimore. Yesterday just after dawn a large cargo ship arrived.

Trident submarines, Army training vessels and naval research vessels all call Port Canaveral home. This is in addition to the large tankers bringing fuel from Houston which is then distributed to tanker trucks providing gasoline and diesel for the central Florida gas stations or onto other tankers to stock the Bahamas and other nearby islands. Of course there are the many commercial fishing and shrimp boats as well as the pleasure boats that are constantly going in and out of the channel. I have found a website (and a companion Android app) which shows which vessels are in port on a map overlay with their names, as well as which vessels are in range and what direction they are moving. You can even look at their past travels and see pictures of the vessels taken in many harbors around the world.

The site is www.marinetraffic.com and allows you to see what ships are in or near ports anywhere in the world. You can even search for a particular ship. And the system, which operates very similar to APRS, shows ships on the Great Lakes and major rivers as well. And you can even set it up to send you emails when certain of your "favorite" ships approach, enter or leave a port. They will even provide you with a free transponder if you want to add your boat to their tracking system! A few of the Trident subs even have them! (with the ship's name as "US Submarine".)

Along with being able to view what is happening, **I can also listen to the harbormaster and pilot** as they coordinate the entrance and departure of each vessel on Marine channel 10. The Pilot climbs aboard each large ship as it enters the channel about 3 miles out from the jetty and takes the helm until it is docked (even the submarines!). When they are ready to leave, he takes them back out. That would be an interesting job!

Ron J. -AR-



(Continued from page 2)

I had lines on my map marking the azimuths for 5 bothersome noise sources: Three west of my QTH, and two east.

Prez cont.

Now the outside" nice weather" work — I utilize a portable shopping stroller with a IC-706, and a battery inside. I carry a 3-element, 2-meter Yagi with about 6 feet of RG-58 cable connected to the IC-706, and my map with the azimuth plots. The IC-706 features all band coverage, an S-meter, a preamp, and an attenuator.

- **Start Triangulation** Now referring to the map, go to a point on the map where an azimuth plot crosses a street or equally good access point one half to one block away. With the small Yagi, s-meter, pre-amp, and attenuator on radio, determine if the noise is farther out on that azimuth line, or back toward my QTH. Head toward the strongest direction looking for a good access point that may be 50 to 75 yards perpendicular to the azimuth line and take another reading. Repeat the process as necessary. You might already be able to see the electrical hardware that may be the source of the noise. By using the three element yagi, and the attenuator on the radio, and selecting the best distance and angle to the source you can learn to discriminate to individual poles or clusters of hardware. When you have located the noise source, the yagi can also help you determine the polarization of the noise. I usually hunt with the yagi "horizontally polarized" (the yagi elements are parallel to the ground). But I do also check the noise source for "vertical polarization".
- ♦ Documenting The Findings After finding each noise source, I document it on my map, and in a paragraph usually describing the source, and it's location, and pole number (if available), along with signal strength, signal polarization, and azimuth from my home QTH.
- ♦ Reporting it I send a tactful letter to the utility, advising them of suspected power utility RFI in my neighborhood, and how it is negatively impacting my FCC licensed Amateur Radio communications. I usually hear from someone during the next 10 days to confirm and discuss it. Now I use the notes and refer to the map and text descriptions of the locations of the noise sources.
- ◆ Action Time Don't hold your breath! This is where you learn to be patient! They do not want it fixed nearly as much as I do.

NOTE: My wife believes that I should be **billing** them for finding their problems...

PS. on **Field Day** — I do not have any updates yet for Field Day status. Upper Gordon Park has been our Field Day location for several years. **Last Word on this:** Cleveland was in the process of taking over the Metro-Parks from the State. We do not know what impact this will have. I will be calling to find out. I hope to have the info before the next Thursday night net.

Gary Zimmet WA8TJL "Motivated at this Time"

W8TTY (SK)

We give thanks for one of our own.

Former LEARA Trustee

Allen Amster, W8TTY (SK)
April 7, 2013

Notice

Notice

A Remembrance:

Years ago Shaker Heights had a Pumpkin Patrol where hams volunteered their time by driving their own vehicles up and down the streets during Shaker's 2-hour official trick or treat window.

Al and I used to team up together riding in either his car or mine.

This gave us 2 hours of quality time discussing ham radio, family, business and world events.

Toward the end, Al just stayed home, but I would stop by his house during my patrol, since he lived in Shaker, and we would chat.

Occasionally, I would meet Al at his favorite restaurant, Yours Truly on Chagrin Blvd., for lunch or dinner.

I always enjoyed the conversation.

What really defined him as a ham was his passion for RTTY to the point that he gave up his call sign of approximately 50 years (W8HYG) for W8TTY.

He told us that he was just waiting for that call to become available.

I guess it was a long wait.

Bob, W2THU

Surfin': Microcontrollers -- Small But Mighty

Stan Horzepa, WA1LOU

By Stan Horzepa, WA1LOU Contributing Editor <u>from arrl.org</u>



Microcontrollers are gaining a foothold in the ham radio world. Here are some resources to help begin your explorations.

I've added a new book to my library: <u>Ham Radio for Arduino and PICAXE</u>, edited by Leigh L. Klotz Jr, WA5ZNU.

No, Arduino is not a new entity on the DXCC list, but rather a single-board microcontroller, that according to the <u>Arduino website</u>, provides "an open-source electronics prototyping platform based on flexible, easy-to-use hardware and software. It's intended for artists, designers, hobbyists, and anyone interested in creating interactive objects or environments."

Similarly, PICAXE is a microcontroller that is "designed to be the brain of your electronic project." According to the <u>PICAXE website</u>, the PICAXE system was "[o] riginally designed as an educational system for schools, [but] has now also been widely adopted by hundreds of thousands of 'hobbyists' due to its ease of use."

WA5ZNU's book is full of ham radio applications based on Arduino and PICAXE. Visit the **book's companion** website for a list of the projects and other pertinent information. By searching Google, you will find hundreds of

entries on Arduino and PICAXE applications in Amateur Radio. For example, one of my favorite websites, hacka-day.com recounts Todd Harrison's recent attempt to build an Arduino frequency counter for a Kenwood TS-520S transceiver.



ARRL Editor's note: Stan Horzepa, WAILOU, seeks the unusual in radio. To contact Stan, send <u>e-mail</u> or add comments to the <u>WAILOU blog</u>.

LEARA — The Lake Erie Amateur Radio Association

- 43 Years of Serving Greater Cleveland Since 1969 -

VOICE REPEATERS:

146.76/R- • Highland Hills (Requires 110.9 Hz tone)

146.88/R-IRLP • Lakewood (Requires 110.9 Hz tone) IRLP Node 4282

224.90/R- • Lakewood (141.3 Hz tone)

444.40/R+ • Macedonia (Requires 131.8 Hz tone)

444.70/R+ • Lakewood (131.8 Hz tone)

PACKET NODES: CLE1 145.01 MHz: CLE5 145.05 MHz: CLEV220 223.70 MHz

These nodes are part of the Cleveland Net Cluster in K8EIW's backbone system.

INTERNET: • 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 *callsign* in the body.
Those who subscribe via e-mail will not receive a paper copy.