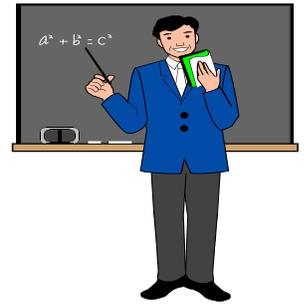




# The Spirit of '76 and '88

Number ONE in Ohio!



## Newsletter of the Lake Erie Amateur Radio Association

Editor: Alex Manuk, WD8JMM

Publisher: Jeannie St. Marie, KC8MNW

This Month's Meeting — Tuesday, September 28, 2004

### *LEARA Repeaters, Fact and Fiction*

Presented by Eric Jessen, N8AUC

The program for this month's dinner meeting promises to be a winner! Our very own Vice President, License Trustee, and all around good guy Eric Jessen, N8AUC, will be educating us on the truths and falsehoods of our repeater system.

LEARA's repeaters are one of our best assets, and no club in the county boasts more machines, doing more different things, than LEARA. However, there have been some misconceptions that have sprung up

regarding coverage, capability, and recommended use over the years.

Eric will correct our misconceptions, give us a little history lesson and probably have us all laughing before the night is over.

So, bring your questions about our repeaters to the meeting on September 28th, and prepare to be enlightened!

September, 2004

#### In This Issue

Officers/Trustees .....	2
de W2THU .....	2
LEARA Info .....	2
Association News .....	3
Looking Forward .....	3
Door Prize Winners .....	4
Meeting Recap/Photos.....	4
Sept Trustee's meeting minutes.....	5
Public Service .....	6
IARU Foxhunt Report .....	8
Hamfest & Exam Listing.....	9

### LEARA Newsletter voted #1!

de Alex Manuk, WD8JMM

On September 18th, 2004, at the Ohio Section Conference, it was announced that The Spirit of '76 and '88 has been selected as the best newsletter in the State of Ohio for 2004. On hand to accept the award for LEARA were Bob Winston, W2THU and Bryan Torok, N8OOF.

As current editor, I'd like to thank former editors Bryan, N8OOF, and Mike, KC8OWL, as well as unsung heroes Jeanne St. Marie, KC8MNW, Dave Foran, WB8APD, and Marv Grossman, W8AZO for hours of publishing, folding, stapling, labeling and mailing. Thanks also to the cast of thousands whose contributions to this publication have made it what it is. We couldn't have done it without you!



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**TRUSTEES EMERITUS**

<b>Al Amster, W8HYG</b>	<b>Al Severson, AB8P (SK)</b>
<b>Fred Collins, W8ADW</b>	<b>Pat Shreve, W8GRG (SK)</b>

**POINTS OF CONTACT**

"Sunshine" <b>Don Raith, N8DJG</b>	216-921-7546
Radio Officer <b>Raye Bayun N8NAP</b>	146.76/R
Radio Officer <b>Bryan Torok, N8OOF</b>	146.88/R

The *Spirit of '76 & '88* is published monthly except in December. Contributions must be received by the 1<sup>st</sup> of the month.

**Editor:**

Alex Manuk, WD8JMM

E-mail: editor@leara.org

*de W2THU...***OHIO'S NUMBER ONE AMATEUR RADIO NEWSLETTER**

As you read on the first page, the *Spirit of 76 & 88* has received first prize in the Ohio Section newsletter contest. This is quite an honor that represents the culmination of many years of hard work by a succession of editors. When I joined LEARA in 1979, this Newsletter was edited by George Hinds, N8CIX (SK) and printed on a real printing press in Dave Foran's, WB8APD, basement. Then, for many years, Dave Prestel, W8AJR, took over the reins and publication moved through a series of large company modern printing departments, culminating with Antenna Specialists, where Marv Grossman, W8AZO had access to high volume copiers and even folding machines. In the late 1990s, Bryan Torok, N8OOF, became the editor as publication shifted to Jeannie St. Marie, KC8MNW, who still uses her modest workplace copier to print and collate about 350 copies. After that, Bryan turned over the editorship to Mike DiTurno, KC8MNW, who resigned midway through this year in order to become the Cuyahoga County Emergency Coordinator. As you know, the present editor is Alex Manuk, WD8JMM.

Each of these editors made incremental, but significant improvements to the layout, content and style of our award winning *Spirit of 76 & 88*. Modern publishing software, digital photography and the ability to publish via the internet have all made it possible to assemble a professional looking club newsletter that approaches the quality of any big city newspaper. However, it was Bryan who accepted the challenge of the Ohio newsletter contest and strove to make our Newsletter number one. About two years ago the *Spirit of 76 & 88* won second prize and I know that although Bryan was happy, he

(Continued on page 3)

**LEARA** is a not-for-profit organization dedicated to Amateur Radio and to 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 \$18.00. **LEARA's address** is: LEARA, PO Box 22823, Beachwood, OH 44122-0823.

**Membership Meetings** are held the last Tuesday of each month except December at Dimitri's Restaurant, 1830 Snow Rd., Parma, OH (in the Mid-Town Shopping Center, just west of Broadview Road). Dinner is served at 6:30 PM. The regular meeting begins at 7:30 PM. Meetings are open to all interested persons. You may attend without eating, but **reservations are required** if you do wish to eat. Call **Marv Grossman, W8AZO at 440-248-0031** or make your reservation online at **www.leara.org**.

**Trustees' Meetings** are held on the second Saturday of odd numbered months at 9:00 AM at the Parma-Snow Branch of the Cuyahoga County Public Library, 2121 Snow Rd., Parma, OH (opposite the Mid-Town Shopping Center). Meetings are open to all current members of LEARA.

## Association News

### de W2THU . . .

(Continued from page 2)

was still disappointed that it did not get top honors. As a matter of fact, it didn't win at all last year and it is a bit ironic that Bryan is no longer the editor at this time. However, N8OOF did accept the award at the Ohio Section Conference in Columbus this past Saturday on behalf of the entire club.

I want to congratulate all of the above and the many other editors that I omitted from this short history for helping to make the *Spirit of 76 & 88* the number one amateur radio newsletter in Ohio!

### LEARA ASSUMES RESPONSIBILITY FOR THE RAIN FOREST STATION, K8CRF

Many of you are aware that there is an amateur radio station at the experimenter's hut inside the Rain Forest exhibit at the Cleveland Metroparks Zoo. The history of this station dates to Cleveland's bicentennial year in 1996 when a group of amateurs from many area clubs formed the Cleveland Bicentennial Amateur Radio Committee (CBARC). The committee sought donations and sites in the city to establish and maintain ham stations in high traffic pedestrian areas. The Rain Forest site is ideal in that about 1 million visitors, many of them school children, walk past K8CRF annually.

Unfortunately, it has always been difficult to keep that station on the air and lately there was even talk of decommissioning it. This would have been disastrous at a time when we are trying so hard to bring young people into amateur radio. I am proud to report that the LEARA Board voted at its September 2004 meeting to assume the responsibility of running the Rain Forest Station. Now, in order to keep our commitment to the zoo, we need volunteers to fire up the rig and stay on the air. Please contact me directly if you would like to operate from K8CRF. Ideally, we want to be on the air Monday through Friday.

73 de Bob Winston W2THU

### Looking Forward

#### Tues, 9/28 - "LEARA Repeaters-Fact and Fiction."

This ought'a be a good one. LEARA Vice President, Eric Jessen, N8AUC is well-qualified to offer this presentation, since his talents include having a looooooong memory of all things LEARA. He'll also be tapping into the resources of a number of charter LEARA members to give us an overview on how the LEARA repeaters came to be, and how they're intended to operate. An alternate title could be "A LEARA Carol," repeaters past, present, and future, but really, he's just out to dispel some of the myths about LEARA's mighty repeater network.

#### Tues., 10/26 - Club Elections + Homebrew

Bring all those winter projects that you haven't had a chance to show off, yet!! Got an oversize project? Bring photos and diagrams! Election and Program brought to you by the LEARA Election Committee + LEARA's Most Innovative Hams. For election info, see notices appearing elsewhere in this and the September issue, as well as a ballot mailer which you can expect at the end of September or early in October.

Sat., 11/8 - Trustees' meeting, see info on page 2.

#### Tues., 11/30—Holiday Dinner

If you have a program idea for LEARA's monthly general meeting, contact our Program Chair, Sara (KC8KSU) at [kc8ksu@leara.org](mailto:kc8ksu@leara.org) or call 440-942-8787, and she'll try to make it happen!

## Repeater Repairs

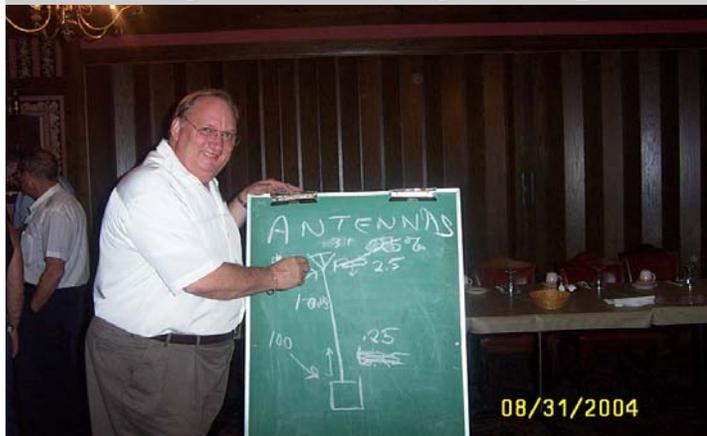
de Raye Bayun, N8NAP

A couple weeks ago I removed the 88 east link receiver as it lost receive sensitivity. As I expected, the front end cavity resonator walls were covered with dendrites. (Kinda reminds me of the flamethrower scene in "The Fifth Element"). I was able to clean them out with compressed air and get the receive sensitivity near spec.

Dendrites are a crystalline metallic growth kinda like what you'd find on a lump of coal in your "Magic Garden" when you were a child. They plague virtually all radios that have die cast pot metal preselectors and filters, the most common being Motorola Mitreks and MSR 5000 repeaters, GE Master II's, MVP's and in our case, GE Phoenix's. The crystals

(Continued on page 8)

## August Meeting Recap



It was another memorable evening at LEARA's August dinner meeting. Our speaker was Al Dolgosh, K8EUR, who offered another chapter in the ongoing saga of antennas and feedline. For those of you who have never witnessed one of Al's presentations, it's an experience that, once savored, becomes a habit.

Al discussed best practices for antenna assembly (you WOULD like to take it back apart someday, wouldn't you?), different brands and flavors of feedline, methods of insulation and weatherization, and various other pertinent topics regarding our skyhooks.

After Al's brief presentation, our radio officers, N8OOF and N8NAP, ably assisted by WA8SAJ, provided testing for those folks who'd brought in equipment.

'Test-n-Tune' verified spectral purity, checked power output, and the volunteers even spent time out in the parking lot tweaking the SWR on a couple of mobile antennas.

Thanks to the 'Testers' and the other volunteers who made the evening education and worthwhile for everyone.



## August Door Prizes

Free Dinner: Sharon Andrisin, KC8ZBP

Multimeter: Frank Hvizdos, W8ACQ

Multimeter: Alex Manuk, WD8JMM

Flashlight: Jeanne St. Marie, KC8MNW

Screwdriver set: Jim Ozello, N8XDO

Screwdriver set: Don Raith, N8DJG

Magnifying lens: Doug Coil, KB8MCD



Multimeter: George Keltner, K8SGM

Icom Cap: Eric Jessen, N8AUC

Flashlight: Darrin Turk, K8DMT

## Election Time!

As if any of us needs a reminder, it's that time of year again! As the leaves begin to change color and the birds head south for winter, it's once again time for elections. Up for election are one third (5) of the seats on the Board of Trustees. Incumbent trustees who are seeking re-election this year are:

**Tom Bishop, W8TAB**

**Raye Bayun, N8NAP**

**Jeff Garvas, N8YNR**

**Tom Long, N8QXA**

**Jim Ozello, N8XDO**

Ballots will be provided in the 'election packet' which will be mailed to members during the first part of October. Members in good standing for a year are eligible and encouraged to vote. Please participate in the elections, as these are your representatives.

## LEARA Trustee's Meeting Minutes - September 11, 2004

The meeting was called to order at 9:12 a.m. Attendees were: Trustees N8NAP, W8TAB, W8AZO, N8AUC, N8QXA, KV0T, WD8JMM, N8XDO, KC8FOC, and W2THU, and guest KB8UTA

Minutes from the July 10, 2004 Trustees' Meeting were read and accepted.

Treasurer's Report was read and accepted.

A moment of silence was observed to honor those who died on Sept. 11, 2001

Radio Officers Report by Raye, N8NAP: The 146.88 repeater has been having issues, Raye will investigate as time permits. There's a possibility of a bozo, but an equipment problem appears more likely. The Willoughby input has been temporarily disabled, pending relocation to a more accessible site. Need to obtain a sidearm for the new site.

Also, regarding bozos—Alex will attempt to recover LEARA equipment loaned to CARS many years ago.

Membership Chair Report by Marv Grossman, W8AZO: 342 paid members, 53.8% ARRL membership.

Program Chair Report by Sara Cechner, KC8KSU: The rest of the year is pretty well set. Alex, WD8JMM was appointed as moderator for the homebrew night. Possible entertainment for the holiday party was discussed and tabled.

Election Committee Report : Nominations are now closed, some bios have been submitted, election committee is still waiting on the remainder. The LEARA survey will be included with the ballot package this year.

### **Old (Unfinished) Business:**

Status of 444.400 project, moving location, frequency, etc. - Raye is examining options for a move/modification as well, nothing final yet.

Jeff is to contact IRLP management directly for help in resolving interference issues with Canada.

Election SOP - Tabled until all the interested parties can be present.

501c(3) status discussion was tabled until N8OOF can be present.

### **New Business:**

LEARA will have a table at the Cleveland Hamfest. Volunteers were solicited to man the table and the talk in station to be coordinated by KA8VIT. Marv will bring the banner, and Steve will provide his information board.

LEARA has been asked to assume coordination responsibility for the Cleveland Zoo Rainforest Station. Discussion ensued regarding responsibilities and scheduling. It was pointed out by W2THU that without support, the station will be dismantled and decommissioned. Motion was made by KC8FOC that LEARA assume responsibility for the station, seconded by W8TAB. Motion passed, 8-2.

The authorization list for the Lakewood repeater site needs to be updated. After discussion it was agreed that the new list should be provided authorizing the license trustee and radio officers. Also, is there a new contact at the Lakewood site, since our old contact has changed jobs?

Motion to Adjourn by John Radney, seconded by Eric Jessen, and passed unanimously at 11:14 a.m.

## Public Service

### River Run Redux

*de Eric Jessen, N8AUC*

It's Sunday morning, September 12, 2004, and at 0600, a shady group of characters gathers around the open tailgate of a van in a deserted parking lot of a nondescript suburban discount store. The owner of the van begins handing out things to the members of the shady group in the pre-dawn gloom. If you saw this would you be suspicious? Would you find it intriguing? Should you call the police?

Better not. The only reason that group looked shady, is because the sun hadn't risen yet!

These were the ham radio volunteers valiantly gathering in the early morning chill for the pre-race briefing for River Run 2004! The handouts included course maps, event schedules. some snazzy looking t-shirts, and course assignments. The briefing was over quickly, and we were off! (By the way, Tom W8TAB, I have a shirt for you!)

Before long, the sun arose, the chill began to fade, and we all heard Robin KC8AWO call out that the walkers started. A little while later, Robin would let us know that the inline skaters were off. These guys would have gotten a speeding ticket in ANY school zone, with the fastest completing the 13.1 mile course in about 30 minutes. That's an average speed of 26MPH - on ROLLER BLADES! Finally at about 8AM Robin advised us that the runners themselves had begun the race.

Near where David KD8ACO was positioned, there was a Berea Police Officer working traffic control. She'd hear an announcement about the race status over our radios, then 5-7 minutes later she'd get it over the police radio. The officer then asked David if she could just listen to his radio. She said we were a better, more timely source of information than her department was. (Some compliment....!)

Once you got to the finish area, there was a party going on ! There were Mr Hero sandwiches, and Ruggles Ice Cream, among other delectables to be sampled. It was one whale of a good time! And the last of us were on our way home by noon!

Those of you who are long time readers of the "Spirit of 76 and 88" will remember that last year, Robin KC8AWO walked this event. She was our tail end charlie last year, finishing in 4 hrs, 15 min. Well, this year's tail enders would

have been absolutely smoked by Robin. They managed to finish in 4 hrs, 38 min. Tail end charlie tracking this year was performed by none other than Tom KA8BZB - just like last year!

Thanks to the NASA Glenn ARC and their license trustee Don KW9Y for allowing us the use of their fine 2m repeater system (it overlooks the deep valley containing the race course). Thanks also go to the following hams whose superb efforts and dedicated service were indeed noticed and appreciated: Jim N8XDO, Tom W8TAB, Alex WD8JMM, Kelly KC8UIX, Tom KA8BZB, Robin KC8AWO, Jon KB9FEM, Steve KB8UTA, Doug KB8MCD, Bill K8WJM, Mike K8EHP, Gary AF8A, Bill KA8VIT, David KD8ACO, and Eric N8AUC.

## Pumpkin Patrol!

*de Joe Swartz, N8IPC*

The Shaker Heights Police Department is asking for assistance on Halloween evening. It needs the eyes, ears, and communication skills of a few good hams. Every year since 1987 or 1988, we have provided this support by driving or walking around in Shaker observing and reporting any suspicious activity that we see. We do not get directly involved. The pros handle the problems. Sergeant Bob Doles KB8CQX will be the liaison between the hams and the Police Department.

If you would like to participate this year, here are the details. We will meet at the Shaker Heights Police Station at 5:30 PM on Sunday, October 31, 2004. We should be done by 8:15 PM. The station is located at 3355 Lee Road, just north of Van Aken Boulevard. Park in the lot just north of the station. Contact Joe N8IPC if you plan to participate -- [jswartz@apk.net](mailto:jswartz@apk.net), 216.991.1951 (evenings), or on 146.76 during drive time.

**HF for the No Code Tech***de Stephen Kinosh, KB8UTA*

Well, not really. Unless you want a letter from Reilly Hollingsworth, stay on the frequencies allocated to your license class. But, if you want a taste of what the HF bands offer, take a good look at 6 meters. If you have never tried 6 meters, you may be pleasantly surprised. With a minimum antenna (mine is a rotatable dipole at 30 feet) and just a few watts (I'm using an Icom 706mkIIg at 50 watts) you can work some amazing DX.

6 is called the magic band for a good reason. When its open, the world can be there, but more often than not you will hear static and LOTS of it. A lot of patience goes a long way here. For example; This past field day on Saturday, we made 62 contacts as far as Utah, Nevada and even a few VE3's. On Sunday, the band was down and just a few very weak Ohio stations were worked. All this with the 706 at 100 watts and a home brew Moxon antenna at 30 feet. Over the next few weeks, I managed to work 166 contacts with 38 states and 79 grids confirmed, plus a contact into Bermuda! Now THATS magic!!

Start by listening for the beacons between 50.00 and 50.100. If you can hear them the move up to 50.125 which is the calling frequency for 6 meters. If you make a contact then move up and leave the calling frequency open for others.

Most 6 meter ssb contacts are made between 50.100 and 50.300, with some fm repeater activity above 53.09. The types of propagation on 6 range from E3 (sporadic E) and F layer contacts. Included are tropo, aurora, forward scatter, meteor scatter, transequatorial, and back scatter. There was a good article in QST last month on working the digital mode on meteor scatter.

I am currently in the process of replacing the dipole with a homebrew 4 element 6 meter beam at about 35 feet. Hey, if I'm going after Alaska and Hawaii to complete 6 meter WAS, I'll need all the help I can get! Also, I am currently in the process of getting a web site up on QSL.NET/KB8UTA that will contain a lot of 6 meter links. There is a lot of material on the web on 6 so take a look, and if your transceiver has 6 meters on it, why not put up a simple antenna and have some fun!!!

**Head of the Cuyahoga!***de Alex Manuk, WD8JMM*

Saturday, September 18th was one of those days that sticks out in memory as 'just beautiful'. The temperature was mild, there was a brisk breeze, and all in all, it was the perfect example of a nice, late summer day.

Which was a good thing, because 4 LEARA hams spent most of the day out in the elements lending a hand for the Head of the Cuyahoga Crew Regatta. 290 crew teams from as far away as Illinois made the trip to participate in what has become one of the most widely attended regattas of its type in the Midwest.



Shells and crew embarked from the docks at the base of Main Avenue, on the west bank of the Flats, and proceeded upriver. Teams turned around at 'Marathon Bend', began to pick up speed, and passed the finish line at W 3rd street at about 18-20 MPH. They were really cooking!

The amateur presence was needed to report start times from the start line to the finish, 3 miles downriver, just east of the docks at Main Ave. Assisting on Saturday were Tom, KA8BZB, Eric, N8AUC, Jim, N8XDO, and Alex, WD8JMM.

There were a couple of interesting occurrences, like trying to clear the river of 60 boats so the Goodtime III could sail by, but all in all, things went well, the participants were appreciative of the amateur involvement, and we hope to be invited back to help again next year.

## Miscellaneous Ham News

### IARU Region II Championships (USA 2004 Radio Orienteering Championships) Revisited

By Mike Cegelski K8EHP

Wednesday morning 16 June, 2004 saw the XYL and I boarded a plane to Santa Barbara, California for the subject event. Try explaining to a heightened security check point agent what broken down antennas are doing in your check-in baggage let alone carry-ons full of HT's, attenuators, etc.. Luckily one of the TSA agents was a ham and knew what we were talking about and where we were going. After arriving and registering on the first day, we ran the practice courses on two (2) and eighty (80) meters the second day (Thursday). Both the wife and I were competing independently and our equipment was functioning well. There were five (5) hidden xmitters per band, each transmits for one (1) full minute, shuts off and then the next one starts all in numeric sequence (1, 2, 3, 4 and 5) for a total five (5) minute cycle.

Friday morning the real fun started. After a bus ride we arrived at the two (2) meter competition site, Vasquez Rocks County Park, Agua Dulce, CA.. The site is extremely rocky, sandy and desert like, full of blind rock bluffs and full of trails NOT on the orienteering map. We started fairly early in the morning to try and beat the heat, a driving sun bringing the daytime heat close to 100 degrees. Talk about echoes and reflections, I did at one time wind up at the end of a box canyon- - NO FOX! I didn't do too bad but I didn't do too well either. The wife heard a rattlesnake just before she stepped on it. She chose to pass on that fox. Can't say I blame her. All I encountered was a lot of lizards. I returned over my time limit and the wife got back within her time limit but without finding any of those furry little critters (foxes).

Saturday morning saw us again board a bus for the eighty (80) meter site, Mt. Pinos, Los Padres National Forest of California. This site was at the top of a mountain with the altitude varying between 7500 and 8500 feet with tons of trees but lots of trails. Eighty (80) meters isn't as susceptible to reflections and bouncing of signals, but what challenge that didn't provide, the thin air handily replaced. You didn't run for too long before you just HAD to stop to grab some breath. I didn't do too well this day either due to stupidity. I misread my compass (of all the idiot problems) which caused me a lot of time wasted. THAT won't happen again! My XYL did notably better this day.

Next years' competition has yet to be announced. Everybody is watching the World ARDF Championships being

held in Europe this year. As soon as this event is completed I'm sure the next year event in the U. S. will be announced, hopefully closer to the east coast. You can bet your bottom dollar the XYL and I will be registered and rarin' to go. This year I did discover the equipment we were using for weekend neighborhood club fox hunts fell somewhat short in this professional atmosphere. Be advised I am presently working on new gear which can only be described as "kick butt". As one of the top winners in this competition said to me this year, "You don't bring a knife to a gun fight." That line was spoken by Sean Connery playing Eliot Ness in the movie "The Untouchables".

By the way, my wife is now KC8YLC so she did accomplish that goal since last years competition! Rest assured next year at this time you'll be reading another report about the XYL and I and the results this time should be remarkably improved. COUNT ON IT!

### Repeater Repairs

*(Continued from page 3)*

are 1/10 the diameter of a human hair and first make the cavity electrically smaller which usually raises the resonant frequency and if allowed to continue growing, will actually "reach" for and touch the resonator coil, shorting it out. They are very brittle, smaller than any needle and getting a sliver in your finger is extremely difficult to get out. My understanding is it's a molecular interaction between the Zinc in the pot metal and the Cadmium or Tin in the plating. To keep manufacturing costs down, an inert layer of nickel, or gold was left out.

As for the 120hz hum on the 76 west input, After 3 attempts to remove it by replacing filter caps only reduced it, I put in a 15V switching supply. It can handle the lower supply voltage and harmonics from all the new cell sites and paging that are there. One of the problems is finding fresh computer grade electrolytic caps. With the advent of switching supplies, many manufactures have discontinued them. ( I don't think there are any of the twist lok caps

## CUYAHOGA COUNTY ARES WANTS YOU!

For more information or to  
volunteer for the Cuyahoga County Amateur Radio  
Emergency Service please contact

**Mike DiTurno, KC8OWL**  
**Cuyahoga County ARES**  
**Emergency Coordinator**  
Kc8owl@yahoo.com

## Hamfest Listing

**26 Hamfest Association of Cleveland**  
<http://www.hac.org>  
 Contact: William Beckman, N8LXY  
 4360 Metropolitan Drive  
 Cleveland, OH 44135  
 Phone: 800-CLE-FEST or 216-999-7388  
 Email: [info@hac.org](mailto:info@hac.org)

### October

**10 Medina 2 Meter Group**  
<http://www.qsl.net/m2m>  
 Contact: Ed Eyerdom, K8NVR  
 3312 State Road  
 Medina, OH 44256  
 Phone: 330-239-1686  
 Email: [k8nvr@arrl.net](mailto:k8nvr@arrl.net)

**31 Massillon ARC**  
<http://www.marcradio.org>  
 Contact: Terry Russ, N8ATZ  
 3420 Briardale Circle NW  
 Massillon, OH 44646  
 Phone: 330-837-3091  
 Email: [truss@sssnet.com](mailto:truss@sssnet.com)

### November

**6 Grant ARC**  
<http://www.geocities.com/garcoho/>  
 Contact: Rodney Crawford, WD8CTX  
 PO Box 76  
 Buford, OH 45110  
 Phone: 937-446-2338  
 Email: [wd8ctx@juno.com](mailto:wd8ctx@juno.com)

### January

**23 TUSCO ARC**  
 Contact: Gary Green, K8WFN  
 32210 Norris Road  
 Tippecanoe, OH 44699  
 Phone: 740-922-4454  
 Email: [k8wfn@tusco.net](mailto:k8wfn@tusco.net)

### March

**19 Great Lakes Division Convention  
 Toledo Mobile Radio Association**  
 Toledo, Ohio  
 Contact: Brenda Krukowski, KB8IUP  
 9408 Salisbury Road  
 Monclova, OH 43542-9700  
 Phone: 419-260-4310  
 Email: [kb8iup@arrl.net](mailto:kb8iup@arrl.net)

## Volunteer Exam Dates and Locations

<u>Date</u>	<u>Location</u>	<u>Date</u>	<u>Location</u>
10/2	Wickliffe		
10/17	Elyria		
10/23	Bentleyville		
11/14	Independence		
11/21	Elyria		
12/4	Wickliffe		
12/19	Elyria		

**Akron, Pioneer AR Fellowship** - 2324 Manchester Rd., Akron, OH, 44314. Pre-registration preferred, check-in 6:30 PM, test at 7:00 PM, walk-ins allowed. **Contact:** Ronald D. Lieving, 330-724-5981.

**Akron, Summit Co. American Red Cross** - 501 W. Market St., Akron, OH, 44303. Testing at 3:00 PM, walk-ins allowed. **Contact:** Bruce M. Ferry, 330-929-2766, [ak8b@arrl.net](mailto:ak8b@arrl.net)

**Bentleyville** - Bentleyville Town Hall, 6253 Chagrin River Rd., (corner of Solon Rd & River Rd) Bentleyville, OH 44022. Testing begins at 9:00 AM, walk-ins allowed. **Contact:** Robert Gauss, N8ZB, 330-562-3328, [w8cbr@yahoo.com](mailto:w8cbr@yahoo.com)

**Cuyahoga Falls** - 2015 3<sup>rd</sup> St., Cuyahoga Falls, OH 44221. Test at 7:00 PM, walk-ins allowed. **Contact:** Steven Greathouse, 330-724-2247.

**Elyria** - American Red Cross, 2929 West River Rd., Elyria, OH, 44035. Testing at 1:00 PM, park in rear and enter through back door, walk-ins allowed. **Contact:** Charles S. Hall, 216-433-3036, [ve@w8hf.com](mailto:ve@w8hf.com), [www.w8hf.com](http://www.w8hf.com)

**Independence** - Independence Town Hall, 6652 Brecks-ville Rd., Independence OH, 44131. Doors open 9:00 AM. Pre-registration is appreciated, walk-ins are welcome. **Contact:** Gary S. Dewey, 216-642-9705, [gdewey@en.com](mailto:gdewey@en.com)

**Wickliffe** - Amateur Electronic Supply (AES), 28940 Euclid Avenue, Wickliffe, OH 44092. Testing at 12:00 PM, Walk-ins are welcome. **Contact:** Scott Farnham, 440-256-0320. Do NOT call the store for information on VE testing.

**\*\* HAMFESTS - Many hamfests provide VE testing. \*\***

### INSTRUCTIONS FOR TEST CANDIDATES

For VE testing one must bring the original and copies of the current license and CSCE forms (if applicable), identification, and the exam fee. ARRL VEC's exam fees are \$12.00. Check with the contact person in advance for specific testing site requirements and any special test accommodations needed.

# LEARA — The Lake Erie Amateur Radio Association

## VOICE REPEATERS:

53.230/R-  
146.76/R-  
146.88/R-  
224.90/R-  
444.40/R+  
444.70/R+

- Highland Hills (136.5 Hz tone)
  - Highland Hills (Use 110.9 Hz tone for remote inputs in Lakewood, Newbury & Willoughby)
  - Lakewood (Requires 110.9 Hz tone)
  - Lakewood (141.3 Hz tone)
  - Highland Hills (131.8 Hz tone) \*IRLP Node #4282\*
  - Lakewood (131.8 Hz tone)
- (.76, .88, .90 and .70 offer emergency and member-only autopatch lines.)

**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.

**GENERAL:** NBRY  
NBRYX  
LEARA

- 145.07 MHz & 223.70 MHz (KA-NODE)
- 145.07 MHz ⇔ 223.70 MHz Gateway
- 145.07 MHz & 223.70 MHz PBBS

## INTERNET:

- [www.leara.org](http://www.leara.org)
- To subscribe via e-mail, send a message to: [spirit76-request@leara.org](mailto:spirit76-request@leara.org)  
Put subscribe in the subject area and your name and callsign in the body.

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