



The Spirit of '76 and '88



Newsletter of the Lake Erie Amateur Radio Association

Editor: Bryan A. Torok, N8OOF
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Publisher: Jeannie St. Marie, KC8MNW

This Month's Meeting — Tuesday, October 28, 2003

Broadband Over Power Lines

Presented by Eric Jessen, N8AUC

and the LEARA Annual Meeting and Election

Please join us on Tuesday October 28th, 2003 for two very important events. First of all, October is annual election month for the Lake Erie Amateur Radio Association, and before the night is through five of LEARA's trustees will be elected or re-elected. Additionally, our club president, Eric Jessen, N8AUC will be providing us with an overview of why the proposed Broadband Over Power Lines, or BPL as it is commonly referred to,

is one of the most significant threats to our ability to use our bands there is.

The FCC acknowledges the interference risk from BPL. "The multiple-carrier transmission nature of the new high-speed BPL technology could pose increased risk of harmful interference, and thus new BPL devices may need a higher degree of oversight to ensure that au-

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LEARA to Make Donation to Fight BPL at October meeting

Details on Page 3

2003 Airport Mass Casualty Disaster Drill – What We Learned

On Saturday September 20th a simulated mass casualty disaster drill was staged at Cleveland Hopkins International Airport. The situations played out in the drill included the release of a chemical agent in the RTA train collector located inside the airport by two suspected terrorists combined with a Boeing 737 loaded with fuel and passengers being shot down over the IX Jet

Center. Remember, this was only a drill.



Because of the magnitude of this disaster, county officials called up the Amateur Radio Emergency Service (ARES) at approximately 0900 on Saturday morning to assist with victim tracking, logistical, and other ancillary communications. I can say

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October, 2003

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de N8AUC . . .



It's a charmed life, I tell ya! Many of you remember in past years, how the weather was cold, wet, and windy for the Cleveland Hamfest. Sometimes, we'd get a nice day, but those times seemed few and far between. Well this year, we literally lucked out. Sunday morning was crisp and clear, with bright sunshine at the Cleveland Hamfest. As you may know, the hamfest ended at 2:00 p.m. Well, by 3:30 p.m. the dark clouds were moving in, and it rained a cold rain that evening. It's still much cooler than normal. But the hamfest was nice! Couldn't ask for much better than that.



I hope all of you made it out to the Hamfest. It was a good hamfest. There were some good deals to be found. I don't know about you, but I don't think the Internet will ever totally eliminate the hamfest. I've bought gear online, and I've bought gear at hamfests. But there is a social aspect to the Cleveland Hamfest especially, that is never going to be duplicated by online swap sites. It's almost like a class reunion, but not quite. LEARA had a club table at the hamfest. And some new members signed up at the hamfest. Our club table was well staffed. Thanks to KC8FOC, W8AZO, KC8KSU, N8OOF, WB8APD, and others for manning the club table. KA8VIT and WD8JMM handled duties on the talk-in station. If there are others who helped out with this and I missed you, please forgive me, as the oversight is not intentional.

Another nice day to be out and about playing radio was Sunday, September 7th. That was the date of the annual River Run, which is a half-marathon that follows the Rocky River Reservation of the Cleveland Metroparks from Berea to Rocky River. Look for articles in this issue about River Run. Thanks to all who lent a hand with that, including some new faces...which is always a good thing.

I'm writing this a little earlier than usual to accommodate some scheduling issues for our editor, so this feels kinda weird. I don't usually write this until after the club meeting. Tonight is the September meeting. And that is the IRLP presentation. LEARA has been working for a while to set up the first IRLP linked repeater in the Cleveland area. We're just about there, thanks to Jeff N8YNR, who now has our node working on simplex. It will soon move to the 444.400 MHz, east side UHF repeater. If you've never heard IRLP, it's very cool. Although it won't replace the-

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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**, via voice mail at **440-942-0154**, 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 p.m. The regular meeting begins at 7:30 p.m. 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 leave a message on the LEARA voice mail line at **440-942-0154**.

Trustees' Meetings are held on the second Saturday of odd numbered months at 9:00 a.m. 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

October Meeting Info (cont'd)

(Continued from page 1)

thorized users are not subject to interference,” the FCC said. The new so-called “access BPL” and “in-home BPL” devices operate on multiple carriers spread over a wide spectrum, which could be as much as from 2 MHz up to 80 MHz. Data throughput for access BPL is claimed to be comparable to DSL (digital subscriber line) or cable modem technology. <quote taken from www.arrl.org>

The major interference threat to amateurs comes from access BPL, because its signals are not confined within a building but can radiate from outside power lines—possibly for great distances. Additionally, the ARRL has worked with some in-home BPL device manufacturers to have their equipment notch out amateur frequencies. The FCC also concedes that close proximity of access BPL equipment on utility poles might affect — and be affected by — cable TV and DSL service.

The October meeting will be held at Dimitri's Restaurant that is located at 1830 Snow road in Parma, Ohio. Dinner will be served at 6:30PM and the presentation will begin at 7:30PM. You may join us for the presentation without having dinner, but if you would like to have dinner with us before the formal meeting begins, please make your reservation by calling Marv Grossman, W8AZO at 440-248-0031, calling the club's voice mail line at 440-942-0154, or by submitting your dinner reservation on-line at www.leara.org under the heading 'Meeting Dinner Request'.

Hope to see you there, 73 de KC8OWL

LEARA Makes a Donation to Fight BPL

The LEARA Trustees have decide to make a donation to the ARRL Spectrum Defense Fund to fight the spread of BPL. Half of the amount collected for dinner at the October and November meetings will be donated along with the Associations half of the 50/50 raffle. The more people who have dinner, the more we donate.

Because of the urgent need of funds to fight BPL, the Trustees felt that we could not wait until November to make the donation. Therefore, a check in the amount of \$350 will be presented to Jim Weaver, K8JE, the Great Lakes Division Director for ARRL, at the October meeting. Should the amount from the dinners and raffle exceed \$350, an additional donation will be made.

The September Meeting Recap — IRLP

On behalf of the Lake Erie Amateur Radio Association I would like to thank Jeff Garvas, N8YNR and Bob Winston, W2THU for their time and effort in putting together what I thought was a great presentation and demonstration on the Internet Radio Linking Project, also known as IRLP. Anyone in attendance that night saw just how easily someone in Australia can be worked using a hand-held radio through the IRLP infrastructure. A special thanks goes out to Michael, VK2KBC who helped make the demonstration a success.



Michael McNiece, VK2KBC

The software and hardware requirements are minimal, and the cost to set up a node is low. This brings the opportunity for smaller more remote locations, or small clubs, to experience national linking without the large capital cost of a satellite node or leased line.

IRLP does not only cover the scope of amateur radio, but also includes several commercial applications as well. A couple of commercial uses include:

- ◆ Replacing leased lines used by national carrier companies. IRLP designed and implemented a central homed system for dispatch of multiple vehicles across the province of British Columbia using internet links, mountain-top repeaters, and remote base radios. The IRLP system was interfaced directly into an existing console, and the dispatchers did not notice a difference in functionality.
- ◆ Town of Canmore Alberta replaced 911 dispatch circuits for Fire, police and Ambulance between Calgary and Canmore using several IRLP nodes featuring embedded processors. These single board computers run under Linux and have no moving parts. The commercial IRLP implementation handles voice and paging tones over the VoIP connections

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Association News

LEARA's Elections are this Month



The LEARA Annual Meeting and election will take place at this month's meeting. All LEARA members in good standing are eligible to vote in this election. If you are in doubt about your eligibility, or if you are eligible and have not received a ballot, contact Marv Grossman, W8AZO, at 440-248-0031 or leave a message on the LEARA voice mail line at 440-942-0154.

The following fine candidates appear on the ballot:

Dave Foran, WB8APD
Marv Grossman, W8AZO
Jim MacMillan, WA8ZHN
Bryan Torok, N8OOF
Bob Winston, W2THU



Nominations for the following candidates were received after the official deadline. However, they are available as write-in candidates:

Grant Hedrick, KVØT (former NØXIL)
Alex Manuk, WD8JMM

Please read the biographies enclosed with the ballot materials and vote for the candidate(s) who you believe will do the best job of running your Association.



Pay close attention to the instructions for voting included with the ballot. Every year a few ballots are invalidated because members failed to sign the outside of the official ballot return envelope.

October is the month LEARA begins collecting dues for the following year. You **are encouraged** to include your LEARA dues for next year in the envelope with your ballot. The Trustees also encourage members to make written comments on the back of the renewal form and enclose those with the ballots. You get to kill three birds with one stone, and we supply the envelope. Such a deal!

Check out the newsletter in color at
www.leara.org
 Follow the Newsletters link on the
 left side of the page

September Door Prize Winners

Free Dinner: **Flossie Collins**



Digital Multimeter:

Tom Long, N8QXA
Barnie Linet, KC8LTD
Tom Bishop, W8TAB

Automatic Wire Strippers:

Bob Winston, W2THU

107 Piece Tool Set:

Dave Foran, WB8APD

Channel Lock Pliers:

Cliff Bade, W8CJB



Mystery Box from Cliff Bade, W8CJB
 (Ty Beanie Baby Spill-Proof Mug:
Raye Bayun, N8NAP

50/50 raffle (\$30 cash):

Fred Collins, W8ADW



Looking Forward

October 28 — Annual Election; program to be determined.

November 8 — Trustees' meeting, see info on page 2.

November 25 — Annual holiday social meeting.

Anyone with program ideas or suggestions is urged to contact Mike DiTurno, KC8OWL, at 216-898-1891 or by e-mail to kc8owl@yahoo.com.

Public Service — Upcoming Events

Pumpkin Patrol — October 31st

Joe Swartz, N8IPC

For the 15th or 16th year (memory fades as we get older), the Shaker Heights Police Department has requested that local hams provide extra eyes on Halloween night, Friday, October 31, 2003. We use a super secret simplex frequency and drive around in designated areas V-E-R-Y S-L-O-W-L-Y and report problems, questionable situations, traffic jams, etc. to Sgt. Bob, KB8TGX. Bob hands the problems off to the pros who deal with it. WE DO NOT GET INVOLVED! (If you are going to be pedestrian mobile, contact N8IPC for the super secret simplex frequency.)



We will meet at the Shaker Heights Police Department, 3355 Lee Road, at 5:30 PM. We should be done by 8:30 p.m. If you would like to participate, contact Joe, N8IPC, at 216.991.1951 (evenings), at jswartz@apk.net, or on 146.76 during drive time.

Additional volunteer opportunities are available at <http://www.neopsv.org>

Welcome to the Club

LEARA proudly welcomes the following hams who recently joined (or rejoined) LEARA and who have been formally approved by the LEARA Trustees.

New Members

William Lorenz, KB8WEM

Kenneth Friedlander, K8KLF

Derrick Phillips, KC8YGE

Martineau Gauda, AB8RQ, formerly KC8YJE

Paul Tokar, WA8TWS

Bernard Vido, KC8YJB

Mary Cegelski, KC8YLC

They will be fine additions to our Association. If you hear them on the air, say hello and make them welcome.

MARS

Steve Kinosh, KB8UTA / AAR5SF/T

No, not the planet, but the Military Affiliate Radio System. Even though I didn't make the August meeting, I was interested in the info on MARS. I contacted MARS HQ and asked for the info, which by government standards arrived quickly, about 4 days. I read it over and decided that it looked like a very worthwhile program.

I sent the application and 2 copies of my license in and 3 weeks later, it arrived. A HUGE overstuffed envelope. You would think I was back in college with all this paperwork. But remember, it IS military. There are 3 info packs to read and 15 tests that must be taken to get certified as a full MARS member.

You must also have 12 hours of participation in MARS programs each 90 days to stay active. I will keep you apprised of my progress as I go along. Oh, by the way, my MARS call is AAR5SF/T. That's Alpha Alpha Romeo Fiv-er Sierra Foxtrot slant Tango. Isn't THAT a mouthful? The /T is to designate a member in training. After completion of the course and certification, the /T is removed. Your MARS membership is active until you request to leave or your license expires.

Look into it. You may find another way to enjoy this fantastic hobby.

Disaster-response Team Forming

Cleveland Plain Dealer, 9/24/03, page B3

Olmsted Falls and Olmsted Township officials are developing a disaster-response team. The purpose is to ensure that citizens receive proper attention in the event of a disaster. The team is made up of four components: medical, transportation, security, and communications. Volunteers would assist in one of those areas in an emergency. To volunteer or obtain further information, call Olmsted Falls City Hall at 440-235-5550.

PHONE: (330) 225-7373
FAX: (330) 225-4333

ORDERS 877-964-5566

**Northern Ohio
Amateur Radio Depot**

Rick Wells - K8SCI

[1] Check phone message machine for any changes in hours

RETAIL STORE HOURS [1]
MON, WED & FRI: 11AM-7PM
CLOSED TUES & THURS

SAT: 10AM-6PM

SUN: 1PM-4PM

www.noard.com

NOARD Inc

821 Pearl Road
Brunswick, OH 44212

Public Service — River Run, Two Views

Eric Jessen, N8AUC

The morning of Sunday, September 7th brought a glorious sunrise for the thirteen hams participating in the annual Cleveland Clinic Sports Health River Run. This event is one of the more entertaining of the public service events that we do. At 7:50 a.m. a flock of crazies on



inline skates leaves the starting line at Wallace Lake in Berea and races along the Valley Parkway through

the Rocky River Reservation of the Cleveland MetroParks for a distance of 13.1 miles to the Memorial Ball Fields in Rocky River. The ball fields are just south of the Hilliard Road Bridge. The fastest of our friends on wheels completed the course in less than 30 minutes. This worked out to an average speed of just under 30 miles per hour...on SKATES!!!

At 8:00a.m., the slightly more sane of the group begins the foot race over the half marathon course. The fastest runners finished in 1 hour and 8 minutes. But this year, we had a fourteenth ham who was not on the roster of amateur radio communicators. Ham number 14 was none other than LEARA's own R o b i n K C 8 A W O, who was a walking participant in the event. Equipped with her trusty dual-band HT she completed the course in a little over 4 hours. Fortunately she held out better than the batteries in her radio. Look for an upcoming report from Robin about what it's like to be on the "other side" of one of these events.



The weather was cool and sunny for most of the event, and to our good fortune the ambulances never needed to be summoned to assist a participant in distress.

After the event, everyone was invited to a party at the finish line, which included Ruggles Ice Cream, Giorgio's Oven Fresh Pizza and plenty of fruits and beverages!!!

A number of the hams made River Run their first public service event. These included: Joe, KC8RAN, Mike K8EHP, and a pair of Andy's KC8YFN and KC8YFO who made a fine father and son team. Hopefully we'll see you at more of our public service events! They are

loads of fun, slightly addictive, non-narcotic, and the only known side-effect is an occasional urge to get up at the crack of dawn to go play radio.

Hats off to the following hams who staffed the 2003 River Run: Tom Kimball, KA8BZB; Jim Ozello, N8XDO; Joe Prokop, KC8RAN; Mike Cegelski, K8EHP; Andy Strojny Jr., KC8YFN; Andy Strojny III, KC8YFO; Gary Mikitin, AF8A; Bill Marx, K8WJM; Alex Manux, WD8JMM; Kelly Manuk, KC8UIX; Marv (motorcycle) Grossman, W8AZO; Bill (bicycle) Fisco N8GRW; and Eric Jessen, N8AUC.

RUN THE CLEVELAND METROPARKS

Public Service – From The Other Side

Robin Jessen, KC8AWO

I always knew we were a vital link in the chain of public service events but I learned just how vital on September 7th. Starting my first race was exciting. HT in hand, I set out on a 13.1-mile trek. Without the help of a number of caring hams my trip could have been a disaster. Roads opened and water stops vanished as the pack had long since passed. Feeling abandoned by race officials I still had our volunteers to cheer me on and keep me on track. Pictures at the transition with Alex (WD8JMM) and Kelly (KC8UIX), "Waterstop" Kimball (KA8BZB) to mark my miles and bring me water, Eric (N8AUC) and Bill (K8WJM) to encourage me to go one more mile. It took me along time but I finished.

Now I know I got a lot of extra attention because these are friends, but I can also remember races where Bill (W8OLF) in his SUV blocked intersections for a tailend someone. Sometimes we are the only ones left to finish to congratulate someone for finishing what they started.

Are we important to public service? To the average participant maybe not. But are we really there for the "average participant" I think not. To the guy who falls off his bike or the woman who turns her knee or the last person over the finish line we could be a lifesaver.

My thanks to everyone who participated in River Run this year. You made a difference in someone's life — MINE.

Robin Jessen, KC8AWO

2003 Airport Mass Casualty Disaster Drill – What We Learned as Amateur Radio Operators

(Continued from page 1)

without hesitation that each and every amateur radio operator involved in the drill helped demonstrate the value amateur radio can add at times of crisis and disaster.

But what did we, as amateur radio operators, learn from the drill? How can our ex-

periences on Saturday September 20th be used to build a more experienced and better-equipped group of amateur radio operators, ready to respond to similar incidents in the future? Below are some suggestions we would like to offer as a way to help ensure that when amateur radio operators are called to respond to an emergency situation, we can communicate accurately, efficiently, effectively, and reliably – every time!

- 1. Batteries.** Anyone with a hand-held amateur transceiver should have an additional battery pack or portable power source to ensure that you can stay on the air after the main pack dies. This does not necessarily mean that you need to buy an additional battery pack from the manufacturer; you can find AA battery shells in QST as well as other suppliers for a fraction of the cost of a regular battery pack from one of the major manufactures, and the AA packs give you the option of using Alkaline cells or the rechargeable cells of your choice.
- 2. Antennas.** The rubber duck antennas supplied with today's hand-held amateur radio transceivers are not designed to be extremely efficient; they are designed to work at least marginally well on all of the bands the radio covers, and with today's multi-band radios, that's a lot of bands to cover. Because of this, an after-market high performance rubber duck, a simple ¼ wave magnet mount antenna, or a 300 Ohm TV twin lead J-Pole should be a piece of equipment every amateur radio operator has in their go-bag to improve the performance of their hand-held radio.
- 3. Identification.** In a crisis or disaster situation it is



the responsibility of law enforcement to secure the scene and keep everyone except those that need to be there, out. As someone who would typically respond after the scene has been secured, an amateur radio operator responding to a call-up should be ready to clearly identify his function in the overall operation. Minimum requirements include a copy of your amateur radio license, a photo ID, and if possible, a safety vest which says COMMUNICATIONS large, easy to see letters. Once you are cleared into the scene people are typically less interested in who you are and much more interested in what you are.

- 4. Familiarity with your radio.** The time to learn how to program your radio is not when you are on-site at a disaster scene. It is critical that an amateur radio operator know how to change the PL tone, offset, duplex setting, power level, etc of the radio(s) that will be used during an event. Because there are so many variables in a crisis situation it is entirely possible that a number of repeaters and simplex frequencies may be needed. The ability to work with these variables is something that cannot be figured out on the fly.

- 5. Radio traffic.** The way in which we pass radio traffic during a disaster is significantly different that the way we casually chat with each other on the way to of from work. In a crisis situation transmissions must be short, accurate, and concise. This will preserve batteries as well provide ample opportunity for priority traffic to be announced and passed without significant delay. Also remember, net control is the equivalent of a traffic signal; no one is allowed to go unless they are given the green light by the signal.



- 6. Miscellaneous.** Asking someone for a pen, pencil, or piece of paper so important radio traffic can be passed or copied is not something that a prepared amateur radio operator should need to do. Always have a pad of paper, pens, pencils, and anything else you feel appropriate in your go-bag. Other things to consider include a flashlight, batteries, rain gear, aspirin, water, and some sort of quick snack food.

(Continued on page 8)

Miscellaneous Ham News

What We Learned

(Continued from page 7)

This is certainly not an end-all list and is not intended to cover every possible scenario. We were simply hoping to draw on the experiences from the drill and use them to help those interested be better prepared for the time when the incident may not be only a drill.

Again we would like to thank everyone involved with the disaster drill on Saturday September 20th. As a team we really shined and made believers out of more than a few law enforcement, fire, EMS, and county officials. Please feel free to contact either of us with any questions, comments, or feedback regarding this article.

Mike DiTurno, KC8OWL
Bill Marx, K8WJM

kc8owl@yahoo.com
wjm2@cwru.edu

Op-Ed

Editor's Note: the following was submitted as a response to the NCI rule-making petition and the NCVEC new entry-level proposal articles in the September Spirit of '76 and '88.

Regarding no-code requirements for any amateur radio class of license, it seems to me if a person has enough interest in pursuing Morse code as a mode of operation on the amateur bands, he or she should be able and willing to pass a minimum 5 wpm code test. Perhaps there should be a license endorsement which only relates to code. If you don't have that endorsement, you would not be permitted to use Morse code on any band. Also, even though technicians don't generally transmit code, they just might want to be able to read the CWID on the repeater sometime.

As far as an entry-level license class, we have one now. It's called technician. Many people who get into ham radio always started with this license. The thing all amateur licenses allow but most hams don't do much anymore anyway is experiment or build their own. This is slowly turning into a hobby of computer operators who want to talk on ham radio through a computer connected to the internet. Where's the RF?

de Bill Hess, K8SGX

Meeting Recap — IRLP (cont'd)

(Continued from page 3)

- ◆ Replacing older technology paging equipment. IRLP designed and implemented a multi-cast voice-paging network (4 transmitters) for a remote school district in British Columbia without the use of RF based links between sites. This saved the school district thousands of dollars in RF gear and reduced the operating cost of their paging system by 75%.
- ◆ Monitoring of remote areas for security reasons.
- ◆ Connecting people from remote offices together.
<The above examples were taken from www.irlp.net>

After the presentation a few minutes were spent discussion LEARA's own IRLP implementation plans. An IRLP node will be placed on the 444.400 UHF machine located on the east side of town near the I-271 and 480 interchange. Our node number, 4282, has been assigned and ready for us to begin using as soon as we get everything working together. Along those lines, I would like to thank Jeff Garvas, N8YNR for all of his hard work, research, and time he has already invested in LEARA's IRLP project – we should have something on the air soon, so keep your eyes on the newsletter and your ears on the weekly net for more information.

Thanks and 73

Mike DiTurno, KC8OWL

de N8AUC (cont'd)

(Continued from page 2)

mance and sheer magic of the low bands, it's still very cool! Stay tuned for further updates!

The October meeting is election night, and you will be receiving ballot materials for that very soon, if you haven't already. Make sure to cast your vote! As the membership of the club, it's not only your right to elect those who run the organization; it's your duty as well. We have some excellent write-in candidates this year, who didn't quite make the ballot printing deadline. Make sure to consider those fine hams as you fill out your ballot this year, as they are certainly more than worthy of your consideration.

See you at Dimitri's! 73 de N8AUC

Hamfest Listing

To update or add to this list, please contact Mike DiTurno, KC8OWL, at 216-898-1891 or kc8owl@yahoo.com

October

- 26 Stark County Fairgrounds, Massillon ARC**
www.marcradio.org/hamfest.htm
 Contact: Terry Russ, N8ATZ, c/o MARC, P.O. Box 73,
 Massillon, OH, 44648. Phone: 330-837-3091
 Email: w8np@qsl.net

February 2004

- 8 Mansfield Hamfest, Inter-City ARC**
<http://www.maser.org>
 Contact: Jack Weeks, K8RT, 1210 East Hanley Road
 Mansfield, OH 44903
 Phone: 419-756-5301
 Email: bigdogg@richnet.net

March 2004

- 21 Toledo Mobile Radio Association**
<http://www.tmrhamradio.org>
 Contact: Brian Harrington, WD8MXR, 4463 Holly Hill
 Drive, Toledo, OH 43614
 Phone: 419-385-5624
 Email: wd8mxr@arrl.net

28 Madison Hamfest, Lake County ARA

<http://www.lcara.org>
 Contact: Robert Liddy, K8BL, 7321 Enfield Drive
 Mentor, OH 44060
 Phone: 440-951-0283
 Email: k8bl@ameritech.net

April 2004

- 18 Cuyahoga Fall Hamfest, Cuyahoga Falls ARC**
<http://www.cfarc.org>
 Contact: Ted Sarah, W8TTS, 239 Bermont Avenue
 Munroe Falls, OH 44262
 Phone: 330-688-2013
 Email: w8tts@arrl.net

May 2004

- 14-16 Dayton Hamvention, Dayton ARA**
<http://www.hamvention.org/>
 Contact: Gary Des Combes, N8EMO, PO Box 964
 Dayton, OH 45401-0964
 Phone: 937-276-6930 or 937-276-6934

Volunteer Exam Dates and Locations

To update or add to this list, please contact Mike DiTurno, KC8OWL, at 216-898-1891 or kc8owl@yahoo.com

<u>Date</u>	<u>Location</u>	<u>Date</u>	<u>Location</u>
11/9	Independence		
11/16	Elyria		
11/29	Canton		
12/6	Wickliffe		
12/21	Elyria		

Akron, Pioneer AR Fellowship - 2324 Manchester Rd., Akron, OH, 44314. Pre-registration preferred, check-in 6:30 p.m., test at 7:00 p.m., 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 p.m., walk-ins allowed. **Contact:** Bruce M. Ferry, 330-929-2766, 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 a.m., walk-ins allowed. **Contact:** Raymond C. Dabkowski, 440-729-0110, w8rd@arrl.net

Canton - Stark Co. Sheriff Office/EOC, 4500 Atlantic Blvd. NE, Canton, OH 44705. Test at 9:00 a.m., walk-ins allowed. **Contact:** Gary L. Kline, 330-837-2927, wc8w@sssnet.com, or www.qsl.net/w8np.

Cuyahoga Falls - 2015 3rd St., Cuyahoga Falls, OH 44221. Test at 7:00 p.m., walk-ins allowed. **Contact:** Steven Greathouse, 330-724-2247.

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

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

Wickliffe - Amateur Electronic Supply (AES), 28940 Euclid Avenue, Wickliffe, OH 44092. Testing at 12:00 p.m., 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.

For Sale

Very nice Sony ICF 2010 Short-wave receiver in excellent condition I have all extras, boxes and manuals. \$300.00 or Best offer. Tom Gimmartino

tmg9252@arrl.net

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)
 - 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

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