



The Spirit of '76 and '88



Newsletter of the Lake Erie Amateur Radio Association

Editor: Bryan A. Torok, N8OOF

Publisher: Jeannie St. Marie, KC8MNW

This Month's Meeting

ARRL NIGHT

With Joe Phillips, K8QOE

Tuesday, February 26, 2002

For his month's meeting we will have Joe Phillips, K8QOE, the ARRL Section Manager for Ohio as our guest speaker. Joe will be giving us the latest information about the ARRL, as well as addressing other topics of interest to the amateur radio community.

The meeting will be at Dimitri's Restaurant in the Mid-Town Shopping Center at Snow and Broadview Rds. and is open to all. Dinner will be served at 6:30 PM and the program will start at 7:30 PM. **If you plan to eat, reservations are required!** Restaurant service is available only for those who purchase dinner. If you are attending the meeting only, kindly purchase

beverages at the bar and bring them to your table.

The dinner menu will consist of Steak, Broiled Boston Scrod, or Chicken Parmigiana for \$14.50. Also available is a vegetable and pasta dish for those who prefer a meatless dinner. The dinner includes a salad, main course, dessert, ice tea or coffee, and gratuity (please note, bar service and soft drinks are not included).

RESERVATIONS ARE REQUIRED BY 11:00 AM OF THE MEETING DATE. Please call in your reservation and your menu choice to Marv Grossman, W8AZO, at 440-248-0031 or leave a message on the LEARA information and voice mail line at 440-942-0154.

February, 2002

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Are your Dues Paid?

Check the mailing label, and read "Renewals, Proxies..." on page 5.

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

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de N8AUC . . .



Winter has finally arrived. Late — but it got here. I was almost beginning to think that we were going to get away with no snow. Silly me. This is Cleveland, and the calendar says it's winter. But the snow was too late for the Winter Rally. What a shame. It's snowing now! I'm watching it out the window as I'm typing this. Good weather to be inside playing radio.



Let's see, this month starts hamfest season. I got an e-mail today from the folks down in Mansfield. The Mansfield Ham Fest is at the Richland County Fairgrounds on Sunday the 10th. Never been to the Mansfield Ham Fest? Here's what you do — get up early on the 10th, and drive to Mansfield. When you get close, tune in the 146.94 repeater and have the guys talk you in. Mansfield is one of the better hamfests in the area (from my experience) and I can recommend it highly. I'm not the ultimate expert on hamfests, I haven't been to them all, but I've been to lots and Mansfield has never disappointed me. Try it — you'll like it.

I got a letter in the mail the other day from our friends at the Westlake Soccer Association asking that we keep them in mind for Memorial Day weekend, and the Westlake Invitational Soccer Tournament. Robin didn't make me include this. Mike Lubin and the folks put on a good tournament. They rely on us to help keep things together. Please reserve some time on Memorial Day weekend and lend a hand with this worthwhile public service project. Besides — it's a lot of fun.

Mike, KC8OWL, and Bill, KA8VIT, did a whale of a job on the SSTV presentation and demo at the January meeting. Great turnout at the meeting, too! 35 of you joined us for dinner and 13 more came for the program for a total of 48. Check out the LEARA SSTV net on Saturday night at 10 PM on the 146.88 repeater. Plans are underway for an over-the-air code class. Stay tuned for details. Congratulations also go out to Bill, N8VUL, for successfully passing his upgrade to General class. One more to go Bill! Strike while the iron's hot! Go for it!

Make sure to join us at Dimitri's on the 26th of February for ARRL night. Joe Phillips, K8QOE, the ARRL Section Manager for Ohio will be our guest speaker. Joe is from Cincinnati, and he tries to blend in by wearing local sports paraphernalia when he hits the road. Since we only invite Joe to visit in February, he wears Cavaliers stuff. Then he gets here and realizes that no one else wears Cavs stuff so he still looks like a foreigner. Might as well wear a Bengals Jersey. Then again that might get him hurt. Don't do that Joe. See you all at Dimitri's on the 26th! Be there — or be square.

73 de N8AUC

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.apk.net/leara**. 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 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 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.

Bozo Alert — Dealing with Interference

Eric Jessen, N8AUC

From time to time I get complaints from members about cases of deliberate interference. Since we've added several new members recently, now seems like a good time to review what you should and shouldn't do when you experience deliberate interference on one of the clubs' repeaters. For reference, we refer to the anonymous individuals who cause interference as bozos.

When situations of deliberate interference occur, here is what you should do:

1) First off, don't acknowledge that the bozo is even there. The fact that these childish individuals crave attention is evidenced by the childish nature of their actions. Also, if the perpetrator does not possess a valid amateur radio license, it is illegal for you to communicate with them in any way over the air. So protect yourself and follow the course of action I will detail here.

If the bozo is successfully interfering with your communications, increase your transmitter power and let the "capture effect" of an FM receiver work for you. If that doesn't work, then just pretend (and act like) he isn't bothering you. Don't antagonize him, don't threaten him, just ignore him. This is not easy, but it is what you must do.

2) While the bozo is transmitting, listen on the input frequency of the repeater and take note of the signal strength, date, and time of the incident, and your physical location (nearest street intersection is perfect), along with the type of radio and antenna you are using, and contact me, or one of the radio officers (N8OOF or N8NAP) OFF THE AIR, to deliver that information. If you are at a fixed location with a directional (or beam) antenna, and can determine what direction the offending signal is coming from, pass that information as well. This is the biggest single service you can render to the club and your fellow hams. If everyone does this, then finding these people becomes a much easier and quicker process. Do not even mention the fact on the air that you are checking the input. Just quietly do it, and pass the information along to us.

Isolated incidents are almost impossible to prosecute. If the situation repeats, or a pattern forms over time, then we have something to begin investigating. And we do investigate. The one thing that these people rely upon is anonymity. And they honestly think that they won't be discovered. Once we have identified who they are, we begin the evidence-gathering phase of the operation. This may take weeks or even months. But LEARA has a dedi-

cated team of people who engage in this activity. Other clubs assist us in this, and in turn we assist other clubs when they have a problem.

Over the past few years, we have identified several of these people. Once confronted by the fact that we know who they are, what they are doing, and that we have enough evidence to prosecute them legally, they usually cease their illegal activities rather than face prosecution. On those occasions where they do not cease and desist, then we contact the FCC for assistance, and we turn over all evidence collected for prosecution by federal authorities. This is when folks like Riley Hollingsworth get involved. At this point, the bozo is in very deep trouble.

Obtaining this kind of action takes time, patience, and perseverance. But we do get those kind of results by following the steps and procedures outlined here. LEARA has favorable credibility with the FCC when it comes to prosecuting deliberate interference cases, because they know that we know what we are doing.

Feel free to contact me directly if you have any questions about this.

73 de N8AUC, Eric
License Trustee for WR8ABC

In Sympathy

Our condolences are extended to Bob Winston, W2THU, and his family. Bob's father, Clifford Winston, passed away Friday, February 8, 2002, in New York from congestive heart failure and complications of diabetes at the age of 88. There was a memorial service on Sunday, after which he was interred in the family plot in New Jersey.

Exclusive to LEARA Members

Numeric paging service, Northeast Ohio area. One annual payment of \$60, includes refurbished Bravo pager first year.

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**Cliff Bade, cliff@clecom.com, or
216 - 496 - 2450**

January's Meeting — Slow Scan TV Presentation and Live Demonstration

Bill Chaikin, KA8VIT

If you missed the January meeting, you really missed out. Bill Chaikin, KA8VIT and Mike DiTurno, KC8OWL did a presentation on Slow-Scan Television (SSTV) complete with a live demonstration of SSTV on two-meter FM.

The slide show presentation covered SSTV from its invention by Cop MacDonald (then WA2BWC) in 1957 through present day computer based SSTV operations. It covered areas such as frame-sequential and line-sequential color encoding techniques, vertical interval signaling codes, digital scan-converters, SSTV modes and formats and more.

After the slide show part of the presentation, Bill and Mike performed a live SSTV demonstration by sending and receiving SSTV images right there in Dimitri's meeting room using their laptop computers and HTs. There were a number of people who brought their laptops and HTs as well and copied the pictures to the delight of others in the attendance.

Bill and Mike talked extensively about the wonderful (FREE!) software, MMSSTV, that they use. This software makes sending and receiving SSTV images on a computer a breeze. All one needs to get started is an IBM compatible computer with a sound card, a radio (two-meter mobile or HT), and a two-dollar cable from Radio Shack.

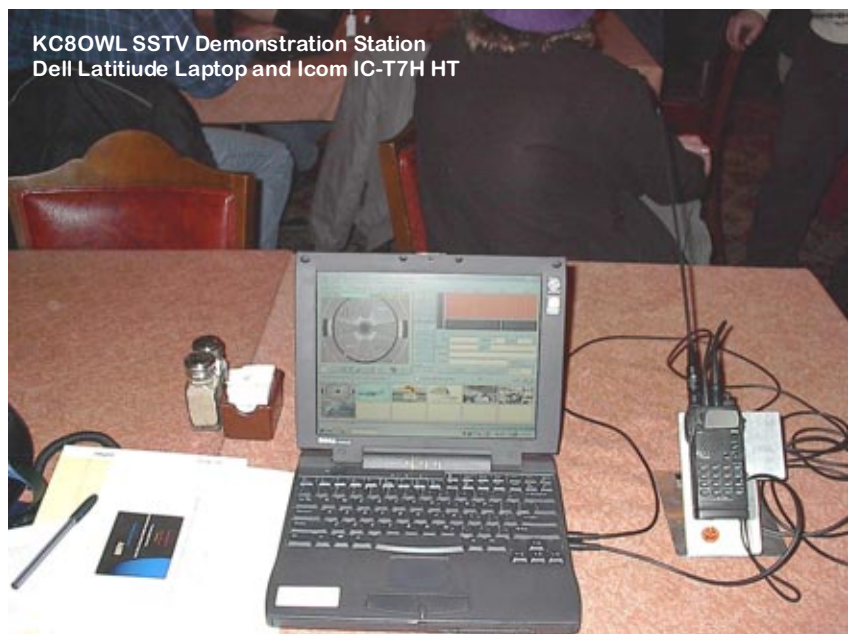
In fact, one doesn't even need the cable. After Bill and Mike explained that SSTV images could be received by just holding an HT's speaker close to the computer's microphone a couple people tried it and could not believe how well that worked! Holding the HT or mobile microphone close to the computer's speaker works just as well for sending!

Bill and Mike also talked about the LEARA 2-Meter FM SSTV Net they run on Saturday Nights at 10 PM local time on the 146.880 repeater and finished up by showing those in attendance pictures from the net. The pictures elicited a lot of comments and laughter from the group. For more information on the net or to see the net pictures yourself you can visit the net's Yahoo e-Group at: <http://groups.yahoo.com/group/learasstv>



LEARA January 29, 2002
Meeting SSTV Presentation

Bill, KA8VIT, and Mike, KC8OWL



KC8OWL SSTV Demonstration Station
Dell Latitude Laptop and Icom IC-T7H HT

KC8OWL's SSTV demo station. A Dell laptop and an Icom IC-T7H HT.

Photos by: Mike DiTurno

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Association News

The January meeting program was all about Slow Scan Television and was presented by Bill Chaikin, KA8VIT and Mike DiTurno, KC8OWL. For the full story see the article and pictures on the previous page.

Door Prize Winners

Free Dinner: **Flossie Collins**



Ratchet and socket set:



Christina Haboustak, KC8KLJ
Jeff Kopcak, K8JTK

Digital Multi-meter: **Darren Turk, KC8DMT**

Repeater directory: **John Radney, KC8FOC**

Madison Hamfest Tickets: **Lori Garvas, KC8MYE**

Mini CD rom containing the MMSSTV software:

Marv Grossman, W8AZO
Bryan Torok, N8OOF
Dave Kennett, W8KFJ
Jack Andrisin, N8HVQ

Renewals, Proxies, and the ARRL

The Trustees urge all members who have not done so to please mark your proxy (regarding amending LEARA's Articles of Incorporation) for or against, sign and date it, and send it to the Association P.O. Box.

Please note: As the proxy is on the back of the renewal form, members may submit the proxy separately from the renewal or renew without signing the proxy. As always, members are encouraged to renew their ARRL membership (or join) at the same time. Additional renewal forms, proxies, and ARRL forms are available from Marv Grossman, W8AZO.

Welcome to the Club

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

James Haboustak, AB8IG
Michael Bowman, N8VME
Mark Studer, KC8FQV
William P. Mamounis Jr., KC8SGZ
Darrell Drossis, KC8NRV
Mike Ellis, N8QMK
Nadine Ellis, KC8QML

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

Looking Forward

February 26 — ARRL with Joe Phillips, K8QOE

March 9 — Trustees' Meeting
See page two for details.

March 26 — Skywarn Spotter Training Meeting

April 30 — Field Day

Copier Repair Person Needed

LEARA has recently had the good fortune to be the recipient of a donated large commercial photocopier. This copier will be residing in South Euclid at the publisher's home and will be used to produce the newsletter. As all copiers need periodic maintenance and repairs, we are looking for a person, or persons, who would be willing to occasionally donate some time in the effort to keep the copier working properly. Anyone interested in volunteering to help keep the copier working should contact our publisher, Jeannie St. Marie, KC8MNW, at (216) 382-0484.

Remember... Check your expiration date on the mailing label. If it shows your membership as expired, send in your renewal...

Today!! If you have not done so, please mark the proxy on the back of the renewal form, sign, date it, and return it with the renewal.

Public Service

Volunteers Needed for Communications for Great Lakes Search and Rescue

Hams are needed to help in providing communications for the Great Lakes of Ohio Search and Rescue K-9 Team (GLSAR). For more details please see the article in the January newsletter, check their web site (www.glsar.org) or contact Steven M. Hnatiak, KC8IVD, as listed below.

On **Saturday, February 16, 2002** from 11 AM to 4 PM GLSAR will be having a monthly training drill at the Brecksville Reservation of the Cuyahoga County MetroPark. Hams wishing to help with this drill should meet at the Brecksville VA Medical Center, 10,000 Brecksville Rd.. (Rt. 21), Brecksville, Ohio. Hams desiring advance notification of GLSAR events should contact Steven M. Hnatiak, KC8IVD, as listed below.

Contact Steven M. Hnatiak, KC8IVD, via e-mail at kc8ivd@juno.com or hampeacemaker@aol.com or telephone at work, Cleveland area, 440-526-3030 ext. 6200 and leave message with VA Police officer, or home, Akron area, 330-733-3324 and leave message on voice mail.

25th CVS/pharmacy Cleveland Marathon and 10k

Sunday, April 28, 2002

Contact info not yet available.

The 2nd Annual Greater Cleveland Marathon

Sunday Morning May 5, 2002

Starts at the Detroit Superior Bridge and finishes at the Hard Rock Cafe on Huron Road. Route visits near Ohio City, Tremont, Playhouse Square, University Circle, Shaker Square, Gordon Park and the Lakefront (to name a few). Full route information is available on their web site at <http://www.greaterclevelandmarathon.com>. We will need about 30 hams to monitor the course. If you can serve as a net control or a liaison with the organizers, you are especially wanted. To volunteer, contact Tom Kimball KA8BZB at one of the following: ka8bzb@arrl.net or 216-371-2832

WIN A DELUXE MICRO-JET

Details at

WWW.SOLDER-IT.COM

Simply send your QSL card for entry in our ongoing QSLs On The Web Contest
Box 20100 Cleveland, OH 44120

Westlake Invitational Soccer Tournament

Saturday, Sunday, and Monday; May 25, 26, and 27

Contact Eric Jessen, N8AUC, or Robin Jessen, KC8AWO, at 440-734-3146.

*MS and MOD Events**

Medical Support and Amateur Radio Support will be needed for the following events:

MS Walk Cleveland	April 21
MS Walk Cuyahoga Valley	April 21
MOD Walk America	April 27
MOD Motorcycle Ride	June 23
MS-150 Pedal to the Point	August 17 th & 18 th

*MOD = March of Dimes

*MS = Nat'l Multiple Sclerosis Society

If you have any questions or are interested in volunteering for any of these worthwhile events please contact T.J. Powell, N8UIR, at tjp@tjp.com.

Call for Public Service Information

Your friendly newsletter editor is putting together the 2002 public service listing. If you would like to have your event listed, please send the information ASAP, preferably at least two months prior to the event. Any info you have at this time would be appreciated. However, we will eventually need the name of the event, the date, time, duration, location, number of hams needed, and any special qualifications and/or equipment required.

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PAGER: (216) 634-4290
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Skywarn Changes

Last month, in an article written by Bill Hess, K8SGX, we told you that the National Weather Service (NWS) is looking for hams to provide Skywarn backbone communications at NWS. This is because the group which had been providing that service has discontinued their relationship with NWS. This has led to some confusion surrounding Skywarn in Cuyahoga County.

Many people have asked questions about the local Skywarn spotters and the weather nets held on local two-meter repeaters. To clarify, the spotters and local nets have not been effected by the changes. The only change has been in the staffing at NWS.

The hams who staff NWS when severe weather threatens communicate information about severe weather, mainly via the six-meter backbone repeater, between the weather forecasters and each of the six district nets that comprise the 30-county Northeast Ohio County Warning Area. This involves taking information gathered by the district nets and relaying it to the meteorologists.

Those hams who may be interested in participating at NWS will receive training for the position so there should hopefully be a minimum of feeling awkward or not knowing what to do and how to do it. To be comfortable doing this job, you should be an operator who does not feel stressed at the microphone if there is a lot of traffic to be handled in a short period of time. Although there are many times when there is little to do, there are those circumstances which can be described as hectic when severe weather is in multiple areas at the same time.

While a number of hams have already responded, NWS is still looking for more volunteers. If you are interested in participating, there will be introductory training/get acquainted sessions at NWS during February and the beginning of March.

Any ham who is interested in volunteering at NWS need not be a LEARA member or member of any group. Those who are interested should call Gary Garnet at NWS at 216-265-2370, Monday through Friday, 8:30 AM to 4:30 PM.

Hams who are interested in learning more about Skywarn in Cuyahoga County and/or Skywarn Spotter training should contact Bill Lain, W8OLF, at 216-475-5972 or attend the Skywarn Spotter training session at LEARA's March meeting.

ARRL News

ARRL Unveils Antenna Modeling Course

The ARRL Letter, February 8, 2002

The ARRL Certification and Continuing Education Program soon will offer its first technical course, Antenna Modeling. Written by the well-known author and historian L.B. Cebik, W4RNL, and edited by ARRL Senior Assistant Technical Editor — and antenna guru — Dean Straw, N6BV, the course offers students a hands-on tutorial. Registration for Antenna Modeling (EC-004) will open Monday, February 11.

The course has been through extensive beta testing during the past several weeks, and even the experts found they'd picked up some new knowledge on the subject. "I've been modeling antennas using a computer for about 15 years, and I certainly learned a great many things in this course," Straw commented.

ARRL Certification and Continuing Education Program Coordinator Dan Miller, K3UFG, said the experts agreed that the best method to master the art and science of antenna design and analysis was to become familiar with the basic concepts of computerized antenna modeling and modeling software. "Using computer simulations (models) you will study the performance of a wide variety of antennas, without having to invest in a test range or a room full of test equipment," he said. "In this course, students will learn to master the basic techniques of constructing good models."

Several excellent and affordable antenna modeling software packages are available. The course will illustrate the elements of modeling antennas using two of the most popular packages based on the NEC-2 core — EZNEC 3.0 by Roy Lewallen, W7EL (<http://www.eznec.com/>) and NEC-Win Plus by Nittany-Scientific (<http://www.nittany-scientific.com/>).

Beta testers offered positive feedback after completing the course. "What a gold mine of information!" said Dan Maguire, AC6LA. "I found myself looking forward to taking the next lesson just to see what new things I could learn." Former ARRL staff member Chuck Hutchinson, K8CH, also took a crack at the program. "Wow, I sure learned a lot about antenna modeling!" was his reaction.

Students will have up to 12 weeks to complete the course material. "There are 31 lessons, and you should plan to spend one to two hours per lesson," Miller advised. The inaugural class begins Tuesday, February 26 and wraps up Tuesday, May 21.

(Continued on page 8)

For ~~Sale~~ Free**Set of 1996 QST**

I have 12 back issues of QST (1996). There is no cost for these; I just thought that someone might get some use out of them.

For above items contact Robert "Skip" Vance, N8THN, at 440-285-4813

For Sale**Yaesu FT-990AC H.F. Transceiver**

with antenna tuner and AC power supply built in, also DC cord and hand microphone included. \$1,300

Bird 43 Watt Meter

with RF sampler built in, along with three slugs. \$350

For above items contact Jeff Covelli, WA8SAJ, at 440-951-6406 or e-mail at wa8saj@ncweb.com

Yaesu FT-736R Transceiver

Dual Band (2m/70cm) All Mode, used primarily for satellite work, always used as a base station and is in excellent condition. Does not have internal switching power supply, but does have the following options:

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 - Owners manual and service manual
- Comes with power cord and hand mic. Asking \$685.

Call John C. Gibbons, N8OBJ, at 330-468-2217.

ARRL News

(Continued from page 7)

A sample lesson based on the actual Antenna Modeling course is available on the ARRL Web site (<http://www.arrl.org/cce/sample-lesson/>). Registration for the new Antenna Modeling course opens Monday, February 11, at 4 PM Eastern Time on the ARRL Course Registration page (<https://www.arrl.org/forms/cce/>). The registration fee is \$80 for ARRL members and \$110 for nonmembers. Continuing Education Units (CEUs) are available for all ARRL C-CE courses.

Answers to most questions are available on the ARRL Certification and Continuing Education home page (<http://www.arrl.org/cce>) and the associated C-CE links. To learn more, contact ARRL Certification and Continuing Education Coordinator Dan Miller, K3UFG, cce@arrl.org.

Not too late to become part of ARDF Team USA

ARRL Amateur Radio Direction Finding Coordinator Joe Moell, K0OV, says he has submitted Team USA's Letter of Intent to Participate in the 11th ARDF World Championships, September 2-7 in the Slovak Republic. Twelve stateside ARDFers ranging in age from 11 to 60 have expressed interest in attending, but Moell says it's not too late to add your own name for Team USA consideration. He said the divisions for males under age 40 and for all females still have several openings. Those interested should contact Moell via e-mail, homingin@aol.com. For more information, visit the World Championships Web site (<http://www.ardf.sk>). For more information on Team USA, radio-orienting in the US, and the upcoming USA Championships near Atlanta, visit Moell's Homing In Web site (<http://www.homingin.com>).



NOW, THE FCC DIDN'T SHUT ME DOWN, IT WAS THE EPA--- THEY COULD SMELL OZONE 2 BLOCKS AWAY!

From the Airwaves Journal, January 2002

2002 Hamfest Listing

February

- 24, Cuyahoga Falls ARC 330-688-2013
Emidios Party Center 48 E. Bath Rd. Cuyahoga Falls, OH
w8tts@arrl.net http://www.cfarc.org TI: 147.270+

March

- 17, Toledo Mobile Radio Ass. 419-385-5056 or 419-535-6594
Lucas County Recreation Ctr., 2901 Key St., Maumee, OH
kb8iup@arrl.net http://tmrahamradio.org TI: 147.270+

- 24, Madison / Lake County ARA 440-209-8953
Madison High School, 3100 Burns Rd., Madison, OH
lcarahamfest@hotmail.com http://hamnet.org/lcara
TI: 147.210

April

- 13, Garfield Hamfest/Computer/Electronics 216-663-3258
St. John Lutheran School, 11333 Granger Rd.
Garfield Heights, OH 44125
Admission \$1, Tables \$10 advance / \$15 day of show
ln4js@visn.net (a small "L")

- 28, Athens County ARA 740-592-2106
http://www.seorf.ohiou.edu/xx150 mcdanied@ohiou.edu

- 28, Canfield / Twenty Over Nine ARC 330-793-7072
n8lne@arrl.net TI: 147.315+

May

- 17, 18, 19, Dayton Hamvention / Dayton ARA
http://www.hamvention.org/ 937-276-6930

Fox (hidden transmitter) Hunts

Ashtabula County Amateur Radio Club (ACARC) holds hunts every Sunday at 4:00 PM. For more information, contact Joe, KC8DBT; Bob, WD8PVB; or Dick, KC8FNJ on ACARC repeater, or e-mail Dick (rmadison@suite224.net)

Cuyahoga Falls Amateur Radio (CFARC) holds foxhunts on the first and third Wednesdays of the month at 7:00 PM. The talk-in frequency is 147.27+.

Lake County Amateur Radio Association (LCARA) foxhunts are held on Friday evenings, about once every three or four weeks, starting at 7:00 PM from the Concord Township park. Talk-in is the Painesville repeater 147.21+.

Western Reserve Emergency Communications (WRECS) foxhunts are held monthly on the second Thursday, at 7:00 PM, starting from the area of Rt. 306 and Rt. 422. Talk-in is on the 147.060+ repeater. Further information is available from Bill Takacs, K8VP, at 440-543-4991 or e-mail bta-kacs@nccw.net.

Information and updates on area foxhunts are also available on the internet by signing up for the neohfoxhunt mailing list at: <http://www.egroups.com/subscribe/neohfoxhunt>

Volunteer Exam Dates and Locations

Date	Location	Contact	Phone
2/2	Wickliffe	Scott Farnham	(440) 256-0320
2/17	Elyria	Charles S. Hall	(440) 327-3832
3/10	Independence	Gary Dewey	(216) 642-1399
3/17	Elyria	Charles S. Hall	(440) 327-3832
3/24	Wickliffe	Scott Farnham	(440) 256-0320 (At the Lake County/Madison Hamfest)
4/21	Elyria	Charles S. Hall	(440) 327-3832
5/12	Independence	Gary Dewey	(216) 642-1399
5/19	Elyria	Charles S. Hall	(440) 327-3832
6/1	Wickliffe	Scott Farnham	(440) 256-0320
6/16	Elyria	Charles S. Hall	(440) 327-3832
7/14	Independence	Gary Dewey	(216) 642-1399

Elyria - Red Cross Building, 2929 West River Rd., Elyria, OH. Tests are given at 1:00 PM. Park in the rear of the building and enter through the back door.

Independence - Independence Town Hall, 6652 Brecks-ville Rd. Doors open at 9:00 AM. Pre-registration is appreciated one week prior to test date, although walk-ins are welcome.

Wickliffe - Amateur Electronic Supply (AES), 28940 Euclid Avenue. For reservations by mail, write to Scott Farnham, 10418 Briar Hill Drive, Kirtland OH 44094-9464. Include a 610 form, a copy of current license, and a check for \$10.00 written out to "ARRL/VEC". Walk-ins are welcome. All other exams begin at 1:00 PM. Do NOT call the store for information on VE testing.

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

INSTRUCTIONS FOR TEST CANDIDATES

To qualify for VE testing you must bring the original and copies of your current license and CSCE forms (if applicable), proof of identity, i.e., photo ID, or two other forms of identification, and the examination fee. ARRL VEC's exam fees have increased to \$10.00. Check with the contact person in advance for specific testing site requirements.

All VECs have agreed to adopt the policy requiring CSCE forms to be signed by any applicant receiving CSCE credit. Make sure you sign your CSCE before your copy is removed from the carbon copies that are used for processing your license or upgrade.

Those requiring special consideration, such as Braille exams or special hearing equipment for CW testing, should contact the testing organizers at least two weeks before the test session.

LEARA

PO Box 22823
Beachwood OH 44122-0823

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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 (May require 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

INTERNET:

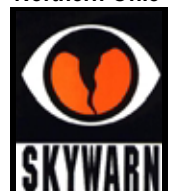
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