



# The Spirit of '76 and '88

Field Day  
June 24-25

Mark you  
calendars!

Newsletter of the Lake Erie Amateur Radio Association

Editor: Joe Prokop KC8RAN

Publisher: Jeannie St. Marie, KC8MNW

\*\*\*\**Bulletin: Fox Talking Trash, Calling Out Local Fox Hunters (pg.4)*\*\*\*\*

## This Month's Meeting — May 30, 2006

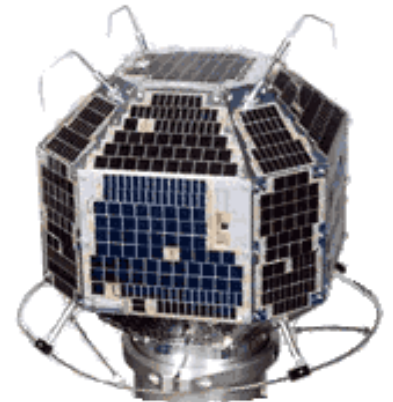
### Satellites!

### Dinner 6:30, Meeting at 7:30 PM

Did you ever want to know what it takes to play on the satellites? Want to make a contact across the country or even work some DX without waiting for sunspots to return. Want to do something besides talk on the repeaters? Just plain curious about space communications? If you answered yes to any of these questions, then the May meeting is for you.

Joe, KC8RAN, club newsletter editor and part time space cadet, will present a program demonstrating satellite basics. It doesn't take computer-controlled equipment, large antenna arrays and super-expensive gear. It does take a willingness to try with some basic equipment. As part of the program, a simple yet effective way to get on the air for Field Day and at home will be presented.

The meeting will be at Dimitri's Restaurant in the Midtown Shopping Center (Broadview and Snow Road, Parma). Dinner is served at 6:30 PM, with the meeting and program beginning at 7:30 PM. Dinner choices (Chicken Parmigiana, Steak or Broiled Scrod) are \$15 per person, and reservations are required if you wish to eat. Call Marv Grossman at (440) 248-0031 or online at [leara.org](http://leara.org).



FO-29, launched in 1996, is the workhorse for SSB satellite communications.

### April Meeting: Skywarn Spotter Training

The Skywarn Meeting is always a highlight of the year. This year was no exception.

Although I was unable to attend, the reports I received indicated that Gary Garnet did his usual fine job of updating and improving the material. Gary is an asset to the Northeast Ohio area, and his work with training spotters every spring demonstrates his dedication and professionalism. Thanks again, Gary! See you next year!

## May 2006

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**OFFICERS**

<b>Eric Jessen</b> President	<b>N8AUC</b> 440-734-3146
<b>Jim Ozello</b> Vice President	<b>N8XDO</b> 216-475-7218
<b>Tom Bishop</b> Vice President	<b>W8TAB</b> 440-331-9374
<b>Steve Kinosh</b> Secretary	<b>KB8UTA</b> 440-288-4141
<b>Dave Foran</b> Treasurer	<b>WB8APD</b> 440-942-0618
<b>Eric Jessen</b> License Trustee	<b>N8AUC</b> 440-734-3146

**TRUSTEES**

<b>Mike Cegelski</b>	<b>K8EHP</b>
<b>Raye Bayun</b>	<b>N8NAP</b> 146.760/R
<b>Jeff Garvas</b>	<b>N8YNR</b> 216-552-4368
<b>Marv Grossman</b>	<b>W8AZO</b> 440-248-0031
<b>Jacob Kinosh</b>	<b>KC8GHX</b> 440-989-8170
<b>Tom Long</b>	<b>N8QXA</b> 440-356-0741
<b>Joe Prokop</b>	<b>KC8RAN</b> 440-884-5796
<b>John Radney</b>	<b>KC8FOC</b> 216-751-7067
<b>Bryan Torok</b>	<b>N8OOF</b> 440-871-5456
<b>Bob Winston</b>	<b>W2THU</b> 216-771-3314

**TRUSTEES EMERITUS**

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

**POINTS OF CONTACT**

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

Trustees and officers can be emailed at [callsign@leara.org](mailto:callsign@leara.org)

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:**

Joe Prokop, KC8RAN

*de N8AUC*

Ahhh - springtime! The snow is gone, the trees are green again, and...and...

oh crap! Yardwork! It's the price we pay for having a place where we can have antennas. It's worth it though. Life without antennas would not be much fun.

Spring brings other things, too. Good things. Fun things. Like the annual pilgrimage to the Dayton Hamvention! As I write this, I am eagerly anticipating Hamvention. Remember when you were a little kid, and you'd get out of school for Christmas Vacation about 4 or 5 days before Christmas? And those 4 or 5 days seemed to take FOREVER! Yeah - it's like that. If you have never attended Dayton, you really should go.

Dayton is more than just a hamfest, it's an experience. You could almost work DXCC in the lunchroom, without a radio, in person. It's like seeing all those photos of the rigs in QST come to life before your very eyes. Unlike "normal" hamfests, where you're lucky if one real radio vendor (like AES, Universal, or maybe HRO) shows up, or a really big hamfest where more than one is there,

Dayton is special. At Dayton, EVERYBODY shows up. Including the manufacturers themselves. Yaesu, Kenwood, Icom, TenTec, and anybody who's anybody in the ham radio world has a real live corporate presence at Dayton. It's the only place I've ever seen where you can talk to someone who actually works for Icom, or any of the others. It really IS a big deal. Then there is the flea market. Six acres of the most primo junk, er I mean stuff, all spread out before you. It's seriously cool, and you really need to be there. If you don't make it this year - then start planning now for next year.

Another major ham radio event is Field Day. Always the fourth full weekend in June. More details about that next month. We'll be at the usual place at the Cleveland Lakefront State Park. You don't want to miss that.

Spring also brings what I like to call "Public Service Event Season". That's when we charge up those HT's and help out at things like marathons, soccer tournaments, and stuff like that. I know you've all heard it before, but doing Public Service Events is how we "pay the rent" for the Billions of dollars worth of radio spectrum that we occupy. That's right, I said Billions with a "B". Like it says in the newsletter every month, LEARA is an organization dedicated to Amateur Radio and Public Service. We don't just say

*(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](http://www.leara.org). Annual membership is \$18.00. LEARA's address is: LEARA, PO Box 22823, Beachwood, OH 44122-0823.

LEARA is an ARRL-affiliated club. When you join or renew the ARRL, LEARA benefits monetarily if you so through the club. Send ARRL Applications/renewals to Club Treasurer Dave Foran WB8APD, 5439 Nan Linn Dr. Willoughby, OH 44094-4365. Make the check payable to LEARA, not the ARRL.

**Membership Meetings** are held the last Tuesday of each month except December 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** to leave a message.

**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

### Field Day 2006 June 24-25

Don't forget Field Day! Our location is almost as exotic as this one!



*(Continued from page 2)*

that, we actually do that. Make it a point to get involved in the many public service events this year. For example... Jerry, K8CMI is still looking for more help on the Cleveland Marathon, May 21st.

...  
We always need more help with the Westlake Soccer Tournament over Memorial Day weekend. Contact me if you can help with that one.

...  
Then there is the big triathlon in July, which always is a good time. Contact Tom, KA8BZB if you can help with the Triathlon. Robin (my wife - KC8AWO) likes the Triathlon because she gets to see lots of well built young guys in Speedos. Now that doesn't do anything for me, but she really likes it. Must be a girl thing.

...  
August brings us Pedal to the Point. See Jeff, N8YNR if you can help with that. I've heard stories about flying pancakes (the edible kind) somewhere at Pedal to the Point. Jeff can fill you in on the details.

...  
Then in September is the annual "River Run" with the crazy people racing at 30MPH on roller blades through the Metroparks Rocky River Reservation.

There is LOTS of opportunity to get involved. And it's a lot of fun. Not to mention is SURE beats doing yardwork.

73 de N8AUC (da prez)

### W8CEJ, SK

From Don N8DJG and Marv W8AZO...

Mel Hoffman, W8CEJ, long time Cleveland area ham, had passed away in February at age 90. Mel has been a member of LEARA since 1987. Please remember Mel and his family in your thoughts and prayers.

### Upcoming Meetings:

**May 13:** Trustees' Meeting

**May 30:** Satellite Operation/Beginner & Field Day Opportunities

**June 24:** Field Day

**July 8:** Trustees' Meeting

**July 25:** (?) Picnic Meeting (see the adjoining notice)

Club meetings, with the exception of the June Field Day and picnic meetings, are held at Dimitri's in the Mid-Town Shopping Center. Trustees Meetings are open to all members in good standing and are held at the Snow Rd. Library across from Dimitri's.

### LEARA "On The Air" Club Net Information

#### Club Net:

The Lake Erie Amateur Radio Association's weekly net is held every Thursday evening at 8:00 PM on the 146.760 (- offset, 110.9 PL) repeater. This is an open and informal net intended to provide the opportunity to test radio equipment, promote fellowship among local amateur radio operators, and develop radio traffic handling skills. **Net Control Operators Needed...** Any member of the Lake Erie Amateur Radio Association interested in trying their hand at directing the weekly net is encouraged to contact Joe KC8RAN ([kc8ran@leara.org](mailto:kc8ran@leara.org)) or as listed on page 2.

#### Slow Scan Night:

LEARA is again hosting a net on Saturdays at 8:00, every other week. This is an informal net, run more like a roundtable. NOTE: This is GREAT opportunity to take advantage of the superior audio quality to send some fantastic pictures. We are experimenting with high resolution modes. Also, on "off" weeks, look for a bunch of us just hanging around on the repeater.

If you need help getting started in receiving or sending pictures, this net is THE place to be. Each week we all seem to learn something new. John, N8OBJ has walked many of us through setup and operation of MMSSTV, the most popular freeware program used for SSTV. You can also drop an email to [kc8ran@leara.org](mailto:kc8ran@leara.org).

## Foxhunting News

### Brazen Fox Calls Out Fox Hunters, Dares Them to "Find Me" Whenever You're Ready

The following bulletin was received from Mike K8EHP...

The fox is planning on hiding sometime during the summer and needs your input as to which weekend day would be best for you. The fox knows he can't satisfy everyone's calendar but he'll average the received results and announce the date later as summer smiles upon us. The fox can tell you the hunt will be on the two (2) meter band. Any information you wish to add will be welcome such as location, time of day, etc..

Please send your responses to Mike K8EHP at [k8ehp@earthlink.net](mailto:k8ehp@earthlink.net) or twisted pair at (216) 252 - 6640. If anybody would be interested in practice sessions or tutoring anytime, let me know and arrangements can be made! This is a fun activity. Just a little practice can make you competitive with anyone else. Let's hear from EVERYONE!!!



The Desert Kit Fox, not to be confused with the Northern Beeping Fox.

### THE LAME HUNTER

de Mike K8EHP

This is a sad story that started in 1996 when a hurricane swept through Raleigh, North Carolina. Many of the seventy, eighty to hundred foot pine trees were uprooted or broken over. The William B. Umstead State Park was closed for a full year just to get the trails cleared. Obviously radio transmitter foxes are not set on the trails but within the park off of the trails. The Friday of the practice before the start to this years ARDF Championships [7 April, 2006] found this author traipsing through the woods in pursuit of an eighty meter fox. In an attempt to hop over a fallen tree my right leg cleared nicely but the left leg didn't, slamming my knee into the tree trunk. Well that was that. I could barely walk let alone run. It's over a week later and I'm still limping. X-rays said nothing was broken or cracked, just severely sprained and bruised. So, that ended my competition chances for this year.

My wife was plagued with electronic bogies with her equipment which pretty well squashed her competitive edge also. Between the two of us I firmly believe we were living breathing examples of Murphy's Law in action. The other folks were all great to see again and were good to be around, but we were seriously disappointed with the trip as far as the reason we went down. But fear not, this won't be the last. We shall ride again screaming "Tally Ho" as we disappear into the sunset!

### Let Us Know

Have you recently upgraded or received a vanity call sign? Did you finally get that last state for your WAS award or finally received your DXCC? Let us know. Please share your amateur radio related awards or special recognitions by sending a note to [editor@leara.org](mailto:editor@leara.org)

## Club Member Profiles *de Steve KB8UTA*

This month's interview is with Steve KB8UTA, Trustee and Club Secretary.

LEARA: How did you get interested in amateur radio? What got you started?

KB8UTA: I was working at Radio Shack and the Manager, Dan ( I forgot his callsign) was a ham. I thought that the 2 meter mobile thing was cool and I started to study for the test with his help. Unfortunately, I took the code test twice and didn't pass. When the No code was introduced, I got a copy of "Now You're Talking" and aced the test the first time out.

LEARA: How long have you been licensed and what class license do you hold?

KB8UTA: I'm still a no code tech, and have held my license for 13 years.

LEARA: What do you like about amateur radio?

KB8UTA: I've always been interested in electronics, and this is a great outlet. I enjoy designing and building antennas. If you have been to the last few Field Days, you have seen some of the creations that my son Jacob, KC8GHX have built. I'm also active in public service events with LEARA, and look forward to this season.

LEARA: What are your favorite bands to work?

KB8UTA: Well, being a no code tech has it's limits, but along with 2 meter mobile, I'm active on 6 meter SSB, when it's active. I have 87 grids confirmed on 6 at present, and hope to complete VUCC sometime this year.

LEARA: Do you collect QSL cards? If so, how many countries do you have confirmed? What is your favorite card?

KB8UTA: Currently only on 6 meters. I have well over 150 cards at present, with my favorite being one from Bermuda. I worked him on 6 meters with an Icom 706Mk IIG, and a wire dipole about 8 feet off the ground. When 6 is open, WOW. That's why they call it the magic band!

LEARA: What other hobbies do you have besides amateur radio?

KB8UTA: I am also into photography, having recently graduated from film to digital. I have just had an article published in "Northern Breezes", a regional sailing magazine, along with 3 inside shots and the cover photo.

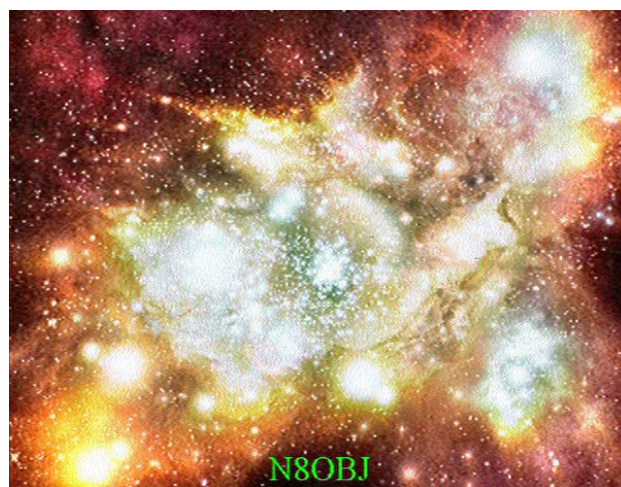
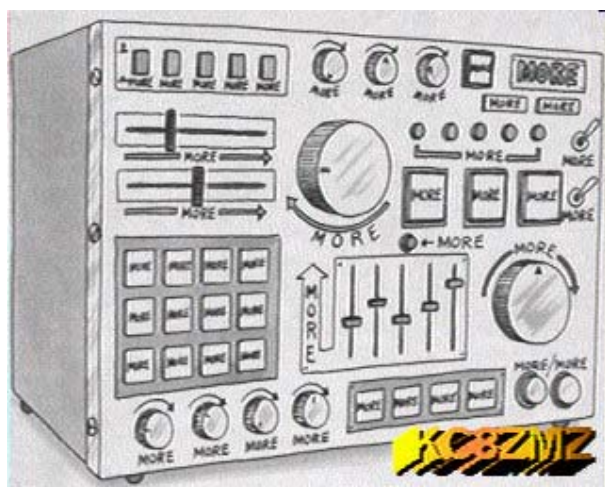
LEARA: What would your dream station be? Where would it be?

KB8UTA: I LOVE the 706, and for now, it's what I want. As far as an antenna, I would love a 40 foot tower, and a LARGE 6 meter beam, but where I live now, the water table is about 2 foot down, so a tower is out of the question. I do plan on buying a sailboat in the near future, and I WILL have another 706 on-board along with the standard marine VHF radio.

LEARA: What type of work do you do?

KB8UTA: I am currently employed by a company called EMSNET. Electronic Materials Solutions Network. We are an electronic component distributor. We handle board level components, and mainly sell to OEM's and contract manufacturing companies.

Pix from the SSTV Night



These pictures were sent over the “88” repeater and received at KC8RAN. See the January '06 newsletter for ways you can join the Saturday SSTV group.

Attention Newsletter Subscribers: Are you getting the newsletter by “snail mail”? Want to see these pictures in color? You can obtain the newsletter online at [leara.org](http://leara.org).

## Announcements and Upcoming Public Service

### Cleveland Marathon May 21

The race is in need of a lot of amateur radio operators. The course spans both the east and west side of Cleveland and there are plenty of posts to be manned. The following letter was received from Jerry K8CMI, who is in charge of this year's radio support for the race "...The race starts at 7:00am and is scheduled to end at 3:00pm. That would put us all at our assignments somewhere between 6:30 and 6:45. Please let me know as soon as you can if you can help out on May 21st and if there is an assignment you would like to have. I think I have the assignments from 2004 if that would help. I'm looking forward to hearing from you and hopefully you will be able to come out and play radio. Thanks again, Jerry Steele K8CMI". Jerry can be reach via email at [gdsteele@yahoo.com](mailto:gdsteele@yahoo.com).

### Westlake Soccer Tournament May 27-28

Bring a lunch, HT, spare batteries and a lawn chair and be part of a great event. Amateur operators are needed to help with scores and communications between multiple fields and the tourney HQ tent. This is a win-win for all; we provide the help to the tournament staff so they can continue to host a premier event, and we get to play radio and watch some entertaining games (trust me, you either get wrapped up in the action or get a smile watching the younger players). Such a deal! Contact Eric N8AUC at (440) 734-3146 or [n8auc@leara.org](mailto:n8auc@leara.org) to be part of the fun.

### Cleveland Triathlon July 23,2006

This year's Cleveland Triathlon will be held on Sunday morning July 23, 2006. As in the past, ham volunteers are needed to provide observation and communications support for the event. The first wave of swimmers will be hitting the water at 6:45 a.m. off of the East Ninth Street Pier. Cycling and running will all be done on the Shoreway between East Ninth Street and West Boulevard. All competitors should be off the course by noon or so (roads need to be opened for traffic in time for the Indians Game). Details (including maps) can be found on the event web site at: <http://www.pacificsportsllc.com/ClevelandTriathlon/athlete6.htm> . Current plans are to use the .88 repeater for the entire event. Hams will be meeting on the South Marginal Road near East 55th Street between 6:00 and 6:30 a.m. We can accommodate late arrivals or early departures so please indicate any special constraints. Doughnut Holes will be provided (BYO Coffee) along with T-shirts and vehicle credentials to identify you as part of the event. To volunteer, you may sign up at any LEARA meeting (including the June LEARA meeting at the field day site). You can also send me an e-mail at [kaeightzb@att.net](mailto:kaeightzb@att.net), or give me a phone call at 216-371-2832 some evening.



Need help with getting your license or upgrading to the next level. Contact LEARA by email to [elmer@leara.org](mailto:elmer@leara.org) or visit the club website at [www.leara.org](http://www.leara.org).  
"It's Easier Than You Think!"

## Ohio Section News

### SECTION MANAGER ELECTION CONTESTED (de Jim Weaver K8JE)

For the first time in many years, there will be a contest in the Ohio Section election for Section Manager. I wish each of the contestants well. There is still time for additional candidates to file for the office; therefore, I will not give the names of the two, current candidates and give them a possible unfair advantage over anyone who decides to enter the race later.

The SM responsibilities are outlined at <http://www.arrl.org/FandES/field/org/sm.html>. The SM clearly has the power to mold the character of the ARRL Section he/she represents. It is up to the members of any Section that host contested elections to determine just what the character of their Section will become after the election is over.



For Sale: Two Isotron (Bilal Company) antennas mounted back to back on a single TV mast ready to install. One antenna is the Bilal Isotron 80 meter, the second antenna is the Bilal Isotron 160C, 160 meter. Both antennas are fed with one common piece of RG-8 coax. Complete antenna is down and hiding behind my garage waiting to go home with you. Looking for \$ 100.00. Call Mike K8EHP @k8ehp@earthlink.net or call me at (216) 252 - 6640..

### Attention All Members...

Keep an eye out on E-bay and elsewhere for the following equipment stolen from the Sandusky Radio Experimenters Club:

TS440S SN 1010164  
TS850s SN 30800462  
Swan 1KW SN 141  
Two Kenwood power supplies  
Kenwood desk mic  
Drake MN2000 tuner

### Door Prize Winners:

Free Dinner - Gary Zemmet W8TJL  
Butane Soldering Iron - Jerome KC8NMX  
Soldering Torch - Jack W8JAK  
First Aid Kit - Darren K8DMT  
Mini Screw Driver Set - Mike Kemfert - Guest  
5 Rolls of Electrical Tape - Jeff KD8CGG  
5 Rolls of Electrical Tape - Bill KC8AWR  
Denim Shirt - Dick Vader Guest  
Wind Breaker - Mike K8EHP  
50/50 Raffle - Our waitress "Jan"

A special thanks to LEARA member Fred Doob, K8PP of Solder-It. He gave us enough door prizes to bring 2 Solder-It products per meeting as additional door prizes.

### For sale Complete ham station.

Heathkit HW 101 With 120 and 12 volt power supply  
SB 303 receiver  
SB 650 digital frequency display  
HM 102 SWR/ power meter  
HD 10 keyer  
Shure Bros. mike  
Dentron Transmatch  
Dummy load w/ oil  
Henry 2K linear W/ 10 meters  
4 extra 3-400 Z finals  
Phone Patch  
Hy Gain 52' Crank up tower  
Ham 4 Rotor  
4 Element yagi Beam  
2 Meter Beam  
40' Telescoping Pole W/ 10- 80 meter dipole  
150' rotor cable  
400'coax  
CB radios-oak desk  
Much Much misc. All Manuals  
Sold as a unit  
\$ 1000.00  
WB8RSL Ken Howe 440-871-8211 Cell 440 554 2162



## Hamfest Listing

### 19-21 May 2006 (Pilgrimage to Dayton)

#### Dayton Hamvention

[www.hamvention.org](http://www.hamvention.org)

(note: CARS will not be sponsoring a bus trip this year)

### 30 Jul 2006

#### HAMFAIR 2006

Portage Amateur Radio Club

<http://www.hamfair.com>

**Talk-In:** 145.390 -

Randolph, OH

Portage County Fairgrounds

State Route 44

**Contact:** Joanne Solak, KJ3O/8

9971 Diagonal Road

Mantua, OH 44255

Phone: 330-274-8240

Email: [ljsolak@apk.net](mailto:ljsolak@apk.net)

### 24 Sep 2006

#### Cleveland Hamfest and Computer Show

Hamfest Association of Cleveland

<http://www.hac.org>

**Talk-In:** 146.73 (PL 110.9)

Cuyahoga County Fairgrounds

**Contact:** Hamfest Association of Cleveland, Inc.

PO Box 81252

Cleveland, OH 44181-0252

Phone: 800-CLE-FEST

Email: [info@hac.org](mailto:info@hac.org)

## Volunteer Exam Dates and Locations

(from the ARRL website)

### 21-May-2006

**Sponsor:** LORAIN COUNTY ARA RED CROSS

**Time:** 1:00 PM (Walk-ins allowed)

**Contact:** CHARLES S HALL (216)433-3036

**Email:** [VE@W8HF.COM](mailto:VE@W8HF.COM)

**Location:** AMERICAN RED CROSS

2929 W RIVER RD N

[WWW.W8HF.COM](http://WWW.W8HF.COM) (HOME PAGE)

ELYRIA, OH 44035

### 03-Jun-2006

**Sponsor:** LAKE COUNTY ARA

**Time:** 12 NOON (Walk-ins allowed)

**Contact:** SCOTT FARNHAM (440)256-0320

**Email:** [SCOTTFARNHAM@ADELPHIA.COM](mailto:SCOTTFARNHAM@ADELPHIA.COM)

**Location:** KIRTLAND LIBRARY

9267 CHILLICOTHE ROAD ROUTE 306

1.7 MI S OF I-90

KIRTLAND, OH 44094

### 06-Jun-2006

**Sponsor:** CUYAHOGA FALLS ARC

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

**Contact:** BRUCE M FERRY (330)929-2766

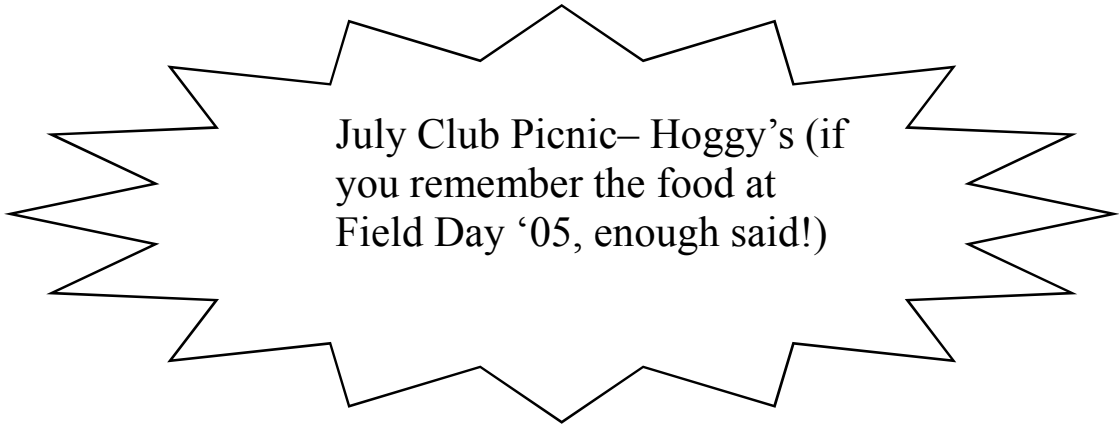
**Contact:** SEE WEB PAGE

**Location:** STOW-MUNROE FALLS PUBLIC LIBRARY

3512 DARROW RD

[HTTP://WWW.AK8B](http://WWW.AK8B).

STOW, OH 44224



July Club Picnic– Hoggy’s (if you remember the food at Field Day ‘05, enough said!)

# 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

## 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.  
Those who subscribe via e-mail will not receive a paper copy.

Affiliated



Club

Northern Ohio



Affiliate