



The Spirit of '76 and '88



Newsletter of the Lake Erie Amateur Radio Association

Editor: Bryan A. Torok, N8OOF
Associate Editor: Mike DiTurno, KC8OWL

Publisher: Jeannie St. Marie, KC8MNV

This Month's Meeting

Field Day Review and Eye-Ball QSO Night

Tuesday, June 25, 2002

While it's still fresh in everyone's memory, the June meeting will provide the opportunity for everyone to get together and discuss the fun and excitement of the 2002 LEARA Field Day. In addition, time will be available to have an Eye-Ball QSO with those people you may only have the opportunity to talk with on the air. Please make plans to join us on Tuesday, June 25th, for a night of amateur radio fellowship.

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-**

June, 2002

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FIELD DAY

June 22nd and 23rd!

Flier and Map in
this Issue!

OFFICERS

Eric Jessen President	N8AUC 440-734-3146
Jim Ozello Vice President	N8XDO 216-475-7218
Bryan Torok Vice President	N8OOF 440-871-5456
Jeff Garvas Secretary	N8YNR 216-552-4368
Dave Foran Treasurer	WB8APD 440-942-0618
Eric Jessen License Trustee	N8AUC 440-734-3146

TRUSTEES

Cliff Bade	W8CJB 440-235-1122
Ray Bayun	N8NAP 146.760/R
Stephen Bellamy	AA8MX 216-932-1970
John Bush	KG8YZ 330-467-4798
Bill Chaikin	KA8VIT 216-691-1038
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Patt McClain	N8RKP 440-247-2229
Jim MacMillian	WA8ZHN 440-333-2235
Bob Winston	W2THU 216-771-3314

TRUSTEES EMERITUS

Al Amster	W8HYG
Fred Collins	W8ADW
Pat Shreve	W8GRG (SK)
Al Severson	AB8P (SK)

POINTS OF CONTACT

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

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 . . .

June is upon us. By the time you read this, the kids will be out of school for the summer. Warm weather - backyard barbecues - ham-fests - marathons and soccer !!! Pretty soon we'll be trading the parkas for air conditioners and doing the triathlon and pedal to the point!



The May meeting was homebrew night II. Nifty projects were shown off!! A repeater controller, a regulated portable solar array, and a hand-crank 12v generator. There is something about homebrew night that just makes you want to go out and melt solder! Homebrew night is just awesome!

The May meeting also saw the final tally announced for the proxy vote. 76% of you voted in favor of LEARA becoming a tax exempt organization under section 501c3 of the IRS code. A two-thirds majority was required for passage, so this resolution passes and the board will begin the process in accordance with your votes. Man - am I glad that's over with.

Half of the year is gone and where did it go? Time flies when you're having fun so that must be it. Dayton is over - the Marathons are done - and so is the Westlake Soccer Tournament. Hamfest season is in full swing - seems like just about every weekend could be spent at a hamfest somewhere in the area.

But this is June. And June can only mean one thing. Yes I know the big VHF contest is this month but I'm talking about Field Day!!! LEARA's second annual Field Day operation will be held June 22 and 23 at the Cleveland Lakefront State Park. This is near the old Nike Missile Site just off of the MLK interchange on I-90 at the west end of Bratenahl. Plans have been announced at the April meeting and in previous issues of the newsletter, so I'm not going over them again. But bring your tent and a few sleeping bags and spend the night with us at Field Day. Big cookout - play radio all night - camp out - get yourself on TV - it's a blast! Setup begins about 9:00 AM on Saturday June 22 and the operation commences at 2:00PM. Operations will continue until 2:00PM Sunday, June 23 - more or less. We'll be doing a little bit of

(Continued on page 4)

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.

Association News

May Door Prize Winners

Free Dinner: **Sara Cechner, KC8KSU**



Universal Battery Charger and
Conditioner: **Mike DiTurno, KC8OWL**



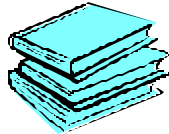
Battery Powered Lantern:

Eric Jessen, N8AUC
Frank Hvizdos, W8ACQ
Dave Morley, W8IXY



Fire Starting Tool: **Pete Iaffaldano, N8OHW**

Basic Communication Electronics
Book: **Jeremy Browner, N1OTN**



Westlake Invitational Soccer Tournament
Shirt: **Don Raith, N8DJG**

Garden Gloves:

Patrick Sweeney, KC8TBD
John Martin, WA8LYC
Sara Cechner, KC8KSU



Barbeque Tool Set: **George Cox, W8PJN**

*A special Thank You goes to **Flossie Collins**, wife of **Fred Collins, W8ADW**, and to **Steve Isenberg, N8TUA**, for their door prize donations.*

Looking Forward

June 25 - 2002 Field Day Wrap-up.

July 13 - Trustees' Meeting
See page two for details.

July 30 - Picnic Meeting - Details to Follow

August 27 - Back by popular demand, Al Dolgosh, K8EUR

September 14 - Trustees' Meeting
See page two for details.

Anyone with program ideas or suggestions is urged to contact Bill Chaikin, KA8VIT, at 216-691-1038 or by e-mail at KA8VIT@ix.netcom.com

Welcome to the Club

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

Jeanne Gallagher, KC8TJH
Jeremy Browner, N1OTN
Cecilia Wawzyniak, KC8TNH

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

Whoops !

de The Editor

In last months edition of the newsletter I accidentally forgot to include Robin Jessen, KC8AWO, in the participant's list for the CVS Marathon.

Robin did a tremendous job sharing the net-control responsibilities with Eric, N8AUC. Sorry Robin!!

de KC8OWL

PHONE: (330) 225-7373
FAX: (330) 225-4333
PAGER: (216) 634-4290
ORDERS 877-964-5566

RETAIL STORE HOURS [1]
MON, WED & FRI: 11AM-7PM
CLOSED TUES & THURS
SAT: 10AM-6PM
SUN: 1PM-4PM

Northern Ohio
Amateur Radio Depot

Rick Wells - K8SCI

NOARD Inc

[1] Check phone message machine for any changes in hours 11/2000.

821 Pearl Road
Brunswick, OH 44212

Association News

May Meeting Recap - Home Brew II

de KC8OWL

For those who made it out to the May membership meeting at Dimitri's on Tuesday, May 28th, you had the opportunity to see some very well made and creative home brew projects. Below is a summary of the items that were proudly shown off (rightfully so) by their owners.

Gwynn Thomas, W8JHL

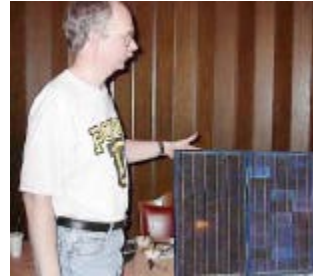


Gwynn brought in his homemade hand-crank generator that was made from scrap test equipment he got from CEI. With a few cranks of the handle, this device will generate about 4 watts of power, as demonstrated by the on-board automotive light bulb.

John Gibbons, N8OBJ



John shared two projects with the group. The first item was a Bird 43 wattmeter in disguise. John packaged the meter, the Thru-Line elements, and a whole assortment of connectors into a wooden box which allows the meter to be read while sitting on a tabletop.



John also brought his homemade solar powered battery charger. The solar panels used for this charger were originally used on the buoys in Lake Erie to power weather observation equipment. The battery charger has a built in digital voltmeter and ammeter, and can supply up to 40 watts of power in direct sunlight.



Bryan Torok, N8OOF

Bryan brought in his UHF repeater and repeater controller to share with the group. In his senior year of Cleveland State's Electrical Engineering program Bryan basically re-engineered the repeater

controller by re-writing the micro controller code, adding CTCSS, and making a number of other enhancements.

A special thanks goes to everyone for who took the time to bring in their home brew projects to share with the group. They truly demonstrate the creativity and ingenuity of the amateur radio community.

Check out the newsletter in color at:

www.apk.net/leara/newsletter.html

de N8AUC Continued

(Continued from page 2)

everything, PSK31 - SSTV - RTTY - SSB and FM voice, CW, HF, VHF, UHF- you want it, we got it. And - wait a minute - nope I can't tell ya. It's a surprise. There is this one thing we're gonna try at Field Day - but I can't tell you about it. You're going to have to come out and see for yourself. This will be so cool - it'll be outta this world! You do NOT want to miss this!!!!

The June meeting will also be held at Dimitri's on the 25th. Don't miss that either. See you all at Field Day!!!

73 de N8AUC

Copier Technician Needed

LEARA has recently had the good fortune to be the recipient of a donated Kodak commercial photocopier. This copier is now in South Euclid at the publisher's home and is being used to produce the newsletter.

LEARA needs someone who would be willing to donate some time and provide instruction on proper maintenance and minor repairs associated with this type of machine. If a volunteer is not located, LEARA will have to hire a repair technician.

Anyone interested in volunteering to help keep the copier working should contact our publisher, Jeannie St. Marie, KC8MNW, at (216) 382-0484.

Association News

Section 501c 3 - Final

LEARA to File for Section 501c 3

de KC8OWL

The Board of Trustees would like to thank the LEARA membership for their support in the Section 501c3 issue. A special thanks goes out to Marv Grossman, W8AZO, for keeping track of all the proxy ballots through this process.

267 in Favor / 348 Total Votes Received (76.7%)

LEARA Wants You !

LEARA Wants Trustee Candidates

Marv Grossman, W8AZO

It's "that" time of the year again... Time to prepare for LEARA's annual election of one-third of its Board of Trustees.

To be eligible, a candidate must be a member-in-good-standing and must have joined LEARA before the August 28, 2001 deadline for nominations. Please make your intentions known as soon as possible to avoid the last-minute rush. If you are interested in running, here's what is needed:

1. A written statement from you indicating your willingness to run and serve if elected;
2. Someone to make the nomination (the Election Committee may do that, but it's better if you supply the nominator); and
3. Someone to second your nomination (same as above).

Incumbent trustees are automatically put on the ballot unless they formally withdraw.

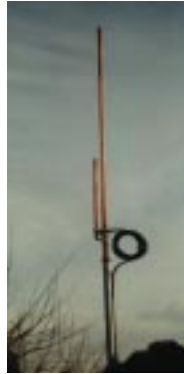
This year's incumbents are:

Eric, N8AUC; Cliff, W8CJB; Steve, AA8MX; and John, KG8YZ. Patt, N8RKP has decided not to run for re-election.

All candidates are encouraged to submit a short bio and/or campaign statement(s) for inclusion with the election materials which will be mailed to all members-in-good-standing at least 2 weeks before the October election meeting. Submit nominations and bio/statements to one of the following Election Committee members:

Bill, KA8VIT,	ka8vit@ix.netcom.com
Bryan, N8OOF,	b.torok@en.com
Marv, W8AZO	marvg@apk.net

Antenna Day



Build Your Own Copper Cactus J-Pole Antenna

Home-brewing antennas is a very important part of ham radio history and, in many cases, was the only option for getting on the air in the early days before all of the commercially made antennas were available on the market.

As a service to all amateur radio operators who would like the opportunity to build their own J-Pole antenna in a 'clinic-like' format, Bill Chaikin, KA8VIT and Mike DiTurno, KC8OWL of the Lake Erie Amateur Radio Association will be hosting the first LEARA antenna workshop.

For a nominal fee (enough to cover the materials) each participant will be given everything necessary to build, test, and tune their own J-Pole antenna. Bill and Mike will be on-site to walk everyone through the construction process and assist with testing and tuning.

This event will be held on Saturday, July 20th at 1:00PM in Bill's backyard at 4473 E. Berwald Rd. in South Euclid. Please complete the form below, clip it, and return it to the following address with a check made payable to LEARA. Each kit will cost \$20.00.

LEARA
P.O. Box 22823
Beachwood, Ohio 44122-0823

Name :		Call:	
Address 1:			
Address 2:			
City:		State:	
Zip Code:		Base Price: \$20.00	
Phone:		(x) Kit Qty:	
E-Mail:		(=) Total : \$	

For further information please contact Bill or Mike at:

Bill: ka8vit@ix.netcom.com or 216-691-1038
 Mike: kc8owl@yahoo.com or 216-898-1891

Public Service

Upcoming Events

2002 Multiple Sclerosis Pedal to the Point *August 17th and 18th*

Jeff Garvas, N8YNR

This year marks the 16th Anniversary of the Northeast Ohio Chapter of the National MS Society's annual PEDAL TO THE POINT. I have been an active volunteer for this incredible cause since I received my license in 1993 and I have looked forward to every year with great anticipation.

For the past few years I've taken on the role of coordinating this event, and I sincerely need all the help I can possibly find. Unlike most public service events, P2P is stretched over 100 miles of road between Berea and Sandusky, Ohio. Almost 2000 bicyclists will ride both to and back from Cedar Point. Some four hundred volunteers are needed for this event, including a significant amount of dedicated hams with equipment!

This two-day event offers meals, food along the event at rest stops, a volunteer t-shirt, and the opportunity to contribute to a great fundraising cause. You can volunteer for any amount of time for either day, but we really need quite a few of you all over the place. Don't let the scope of this event intimidate you; it's a great way to get into public service events! To volunteer please send an e-mail to jeff@mspedal.org or leave me voicemail at (216) 552-4368 with your phone number and availability. Please do me a favor and spread word of this event with every other amateur radio club you know of.

Chagrin Falls Balloon Fest

de KC8OWL

Coverage of the 2002 Chagrin Falls Blossom Festival Balloon Fest will appear in the July edition of the news-

Mohican 100 Mile Run

Ray Suing, N8EQT

On June 15th and 16th the Mohican Run will held in the Mohican State Park. This event will cover a 100-mile course and will require amateur radio support along the route. A temporary repeater will be set up in the park for this event on 147.255 (+), which will require a PL of 118.8. Talk in for the race will be on the 147.210 (+) machine in Wooster, Ohio. For more information or to volunteer for this event, please contact Ray Suing, N8EQT at 440-729-9520 or by e-mail at momdadsuing@prodigy.net

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

March of Dimes Motorcycle Ride Sunday, June 23rd

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

Metropolitan Bank Triathlon

Tom Kimball, KA8BZB



Local amateur radio operators ("hams") will be needed to provide communication support for this year's Metropolitan Bank Triathlon to be held on July 21, 2002 in downtown Cleveland. The hams will be primarily used to monitor the event for safety and will be prepared to relay

problems to medical and other services for the event.

Hams will be meeting between 6 a.m. and 6:30 a.m. on the South Marginal road at the East 55th Street exit off of the eastern Shoreway for the Swim, Bike, and the run portions of the Super Sprint and Sprint events. A second meeting for hams assigned to the Olympic Run course will be at 8:00 a.m., also on South Marginal at East 55th. Volunteers will need to let us know whether or not they will be able to help out, and whether they can make the early meeting.

E-mail and telephone contact information is as follows:

**Tom Kimball ka8bzb@arrl.net for e-mail
or 216-371-2832 (home) or 216-828-9380 (work)**

Full maps, as well as a complete schedule, can be found on the Triathlon web site at

<http://www.pacificsportsllc.com/>
(click on the Metropolitan Bank Triathlon link).

T-shirts will be provided to identify you as volunteers. Hams are also invited to the Friday evening Pierogi party held at the Galleria from 5:30 to 7:30 (advance notice is required for this so I can get you your ticket).

Thanks. See you on July 21st.

Public Service

2002 Westlake Invitational Soccer Tournament

**2002
INVITATIONAL**



**WESTLAKE
MEMORIAL DAY WEEKEND**

Sunshine and Soccer - an unbelievable combination!!!

de N8AUC

The Westlake Invitational Soccer Tournament was held as usual over Memorial Day weekend, which was May 25-27, 2002. Usually, this brings images of cold, rainy, miserable soccer weather...but NOT THIS YEAR!!! For all of you who made excuses not to come out - when images of the last few years danced in your heads...we had the best weather in the past three years! Saturday started out cloudy, with a couple of sprinkles about lunch time. Then - the sun came out - and it stayed out. For the rest of the weekend, if there was a game being played, the sun was shining. Sunday afternoon was definitely suntan weather and you needed the SPF 30!

Fortunately, the only injuries were relatively minor. Hams provided coverage for 215 games spread over 2 1/2 days. As we were preparing to leave on Monday, some of the referees stopped by to say what a pleasure the hams were to work with this year! That was nice - so hats off to you from the refs. Three separate tournament directors also came by to say thank you - and that they don't know how they would run the tournament without our help. Mike Lubin and Dan O'Brian both ask, on behalf of the Westlake Soccer Association, that you plan on joining us next memorial day weekend for WIST 2003!

Thanks to the following hams for lending a hand with one of LEARA's largest public service events

Doug Dever, N8VUR	Tom Kopcak, N8ETP	Eric Jessen, N8AUC	Jeff Kopcak, K8JTK
Bill Lewis, N8VUL	Tom Kimball, KA8BZB	Robin Jessen, KC8AWO	Steve Kinosh, KB8UTA
Mike DiTurno, KC8OWL	Marv Grossman, W8AZO	Bob Winston, W2THU	Jacob Kinosh, KC8GHX
Steve Isenberg, N8TUA	Dan Pickersgill, N8PKV	Jeannie St Marie, KC8MNW	Bill Downie, N8UPZ
Jim Ozello, N8XDO	Bill Chaikin, KA8VIT	John Radney, KC8FOC	Nikki Jessen, future ham
Joe Turkoc, N8KGG	Bill Davis, N8XDM	Sara Cechner, KC8KSU	

Special recognition goes to: N8VUR, KC8OWL, and N8XDO for being there the whole weekend! Way to go guys! Also: Don KJ5KB for helping to repair the antenna damage on top of the Westlake Board of Education, Bryan N8OOF for installing the output half of the portable repeater, and especially to Doug N8VUR for loaning his dual-band mobile for use as the input side of the repeater. Not to mention Robin KC8AWO (who was also there the whole time) and Nikki for putting up with me and WIST every year!



**Jim Ozello, N8XDO,
On the field**



**Don Byrer, KJ5KB, with the
antenna 'before'**



**Eric Jessen, N8AUC, with the
antenna 'after'**



**Nikki Jessen working the
FRS band during the event**

2002 Hamfest Listing

June

- 15 **Milford ARC**
 Contact: Chris Reinfelder, KB8SNH
 Phone: 513-753-5066
 Email: kb8snh@cs.com

July

- 7 **Wood County ARC**
<http://wcarc.bgsu.edu/flyer.html>
 Contact: Bob Boughton, N1RB
 Phone: 419-354-1811
 Email: hamfest@wcarc.bgsu.edu
- 20 **Northern Ohio ARS**
<http://www.apk.net/noars/hamfest.htm>
 Contact: Tom Porter, W8KYZ
 Phone: 440-930-9115
 Email: n8pzd07@email.com
- 27 **OH-KY-IN ARS**
<http://www.ohkyin.org>
 Contact: Mr. Lynn Ernst, WD8JAW
 Phone: 859-657-6161
 Email: wd8jaw@arrl.net
- 28 **Portage ARC**
<http://parc.portage.oh.us>
 Contact: Joanne Solak, KJ3O
 Phone: 330-274-8240

For Sale

- ⇒ Hallicrafters SX-115 (Ham-Band) receiver - \$2000
- ⇒ Collins 312B-5 (RE) VFO, wattmeter, phone-patch - \$900
- ⇒ Drake T-4XB transmitter and AC-4 power-supply - \$350
- ⇒ Drake TR-7 H. F. transceiver, with CW filter - \$600
- ⇒ Swan 500CX and 700 CX, with both 117xc supplies - \$800
- ⇒ Lafayette HE-30, speaker, 6&2 converters - \$75
- ⇒ Bird 43, with R.F. sampler, 3 slugs - \$300

Contact: Jeff Covelli, WA8SAJ
 (440) 951-6406,
wa8saj@ncweb.com



Volunteer Exam Dates and Locations

<u>Date</u>	<u>Location</u>	<u>Contact</u>	<u>Phone</u>
6/16	Elyria	Charles S. Hall	(440) 327-3832
7/14	Independence	Gary Dewey	(216) 642-1399
7/21	Elyria	Charles S. Hall	(440) 327-3832
7/27	Bentleyville	Bill Takacs	(440) 543-4991
8/3	Wickliffe	Scott Farnham	(440) 256-0320
8/18	Elyria	Charles S. Hall	(440) 327-3832
9/8	Independence	Gary Dewey	(216) 642-1399
9/15	Elyria	Charles S. Hall	(440) 327-3832
10/5	Wickliffe	Scott Farnham	(440) 256-0320
10/20	Elyria	Charles S. Hall	(440) 327-3832

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.

Bentleyville - Bentleyville Town Hall. Testing begins at 9:00AM.

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 Field Day - 2002

Saturday, June 22nd and Sunday, June 23rd

The Lake Erie Amateur Radio Association 2002 Field Day Site will be located inside the Ohio Cleveland Lakefront State Park which is just north of Interstate-90 at the Martin Luther King Boulevard interchange at 8701 Lake Shore Blvd. This is just west of the old Nike Missile Site and the Navy Finance Center and is also known as Upper Gordon Park.

This site is an Ohio State Park and our use during Field Day is not exclusive. Keep this in mind regarding language, noise and trash. Please be considerate.

Directions from east or west

1. Take I-90 east or west to the Martin Luther King Blvd exit (exit 177).
2. Head north towards the lake.
3. Follow MLK over the freeway ramps (be careful the ramps have the right-of-way here) and around to the right.
4. There will be a sign on the left identifying the area as the Cleveland Lakefront State Park. The driveway will be on your left.
5. The site is just west of the Ranger Station.

Talk in on the 146.880 repeater will begin at 8:00AM

LEARA

PO Box 22823
Beachwood OH 44122-0823

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LEARA—The Lake Erie Amateur Radio Association

VOICE REPEATERS:

- | | |
|-----------|--|
| 53.230/R- | • Highland Hills (136.5 Hz tone) |
| 146.76/R- | • Highland Hills (Use 110.9 Hz tone for remote inputs in Lakewood, Newbury & Willoughby) |
| 146.88/R- | • Lakewood (May require 110.9 Hz tone) |
| 224.90/R- | • Lakewood (141.3 Hz tone) |
| 444.40/R+ | • Highland Hills (131.8 Hz tone) |
| 444.70/R+ | • 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 | • 145.07 MHz & 223.70 MHz (KA-NODE) |
| NBRYX | • 145.07 MHz ⇔ 223.70 MHz Gateway |
| LEARA | • 145.07 MHz & 223.70 MHz PBBS |

INTERNET:

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