



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, KC8MNW

This Month's Meeting

The Annual LEARA

Picnic in the Park

Tuesday, July 30, 2002

In the Oak Grove Picnic Area of
Cleveland Metroparks Brecksville Reservation

Please join us for the annual LEARA Picnic in the Park on Tuesday July 30, 2002. Because last years picnic location was so successful this year's picnic will again be held at the Oak Grove Picnic Area of the Cleveland Metroparks Brecksville Reservation. This is a great opportunity to get together with fellow club members, their family, friends, and anyone else interested in attending to have a relaxed cookout in a wonderful park setting.

As in previous years, Jeff Garvas, N8YNR will coordinate the menu offerings, which will include hamburgers, hot dogs, potato salad, watermelon, chips, condiments, and soft drinks. Those who wish to have an entrée not offered (i.e. veggie burgers, chicken, etc) may feel free to use the grill at the rate listed below.

Because this great location cannot be reserved in advance, volunteers are desperately needed to arrive early and help occupy the picnic area. Please contact Jeff by phone at 216-552-4368 if you can help out. Dinner will begin being served at approximately 6:00PM. Kids under 12 years of age eat for free.

MENU OPTIONS	PRICE
Hamburgers and Hotdogs (all you can eat) - Includes unlimited side dishes and soft drinks	\$7.00 / person
Use of the grill (you supply the entrée) - Includes unlimited side dishes and soft drinks.	\$3.00 / person
Use of the Grill - You supply everything	\$1.00 / person

July, 2002

In This Issue

Officers/Trustees	2
de N8AUC	2
LEARA Info	2
June Door Prize Winners.....	3
LEARA Picnic Maps.....	3
Association News	4
June Meeting Recap	
LEARA Wants YOU!	
Looking Forward	
Association News	5
LEARA Antenna Day	
Welcome to the Club	
Field Day 2002 Testimonials	
Association News	6
Field Day 2002 - continued	
Chagrin Falls Balloon Festival	
Public Service.....	7
Cleveland Clinic River Run	
Metropolitan Bank Triathlon	
MS Pedal to the Point	
Field Day Pictures	8
Hamfest Listing.....	9
VEC Testing.....	9

Reservations for the picnic are required by 12:00 Noon Monday, July 29. You may attend without making a reservation, however; you will be responsible for supplying your own dinner.

Please call in your reservation to Marv Grossman, W8AZO, at **440-248-0031** or leave a message on the LEARA voice mail line at **440-942-0154**.

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
Marv Grossman	W8AZO 440-248-0031
Tom Long	N8QXA 440-356-0741
Patt McClain	N8RKP 440-247-2229
Jim MacMillian	WA8ZH 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.

Editor:

Bryan A. Torok, N8OOF

Associate Editor:

Mike DiTurno, KC8OWL

E-mail: editor@leara.org

de N8AUC . . .

Well, it's July already. The weather has been hot (remember when we longed for this back in January?) and LEARA has been, too. It's been busy, with lots of opportunities to get out and enjoy club activities. If you're moping around, bored out of your skull, well get off the couch and join us.



Field Day was June 22 and 23. We had a ball! The weather held out nicely, the bands were in pretty good shape, and so was the barbecue grill. Cliff, W8CJB loaned us his 6.5KW generator. We soon found out why it's on wheels. Man is that sucker heavy.

John, KC8FOC did a wonderful job running the public information booth, which was well stocked thanks to Bob W2THU and Joe (our Ohio SM) K8QOE. Robin KC8AWO prepared a wonderful picnic supper for us, and we had a new helper in Mark, KA4JVY (who I don't think is a LEARA member yet) who did a fabulous job on Sunday morning breakfast partly to atone for bringing out his

WW2 vintage gear and not making any contacts with it. Robin and Mark kept the crew well fed. Bill, KA8VIT and Mike, KC8OWL were instrumental in planning and pulling off our second foray into Field Day as a club. Our final score has not yet been calculated, but it will be soon, and it will be announced as soon as it is finalized, so stay tuned for further details. It will also be published in the December issue of QST - so watch for it.

The June meeting was a pleasant surprise. Our program chairman Bill, KA8VIT was really working hard trying to line up a speaker and program for June. As the newsletter went to press, no one was returning his calls. To say that Bill was disappointed would be an understatement. Then, just before the newsletter mailing went out, the phone rang and it was Jim Ries, the traffic manager for the FAA in Oberlin. What a presentation that turned out to be! Those of you who attended the June meeting were treated to an outstanding presentation by Jim on how the FAA cleared the skies so quickly on 9/11 as well as a bit of an inside view on Flight 93. It was an awesome evening at Dimitri's. Good food, good company, good air conditioning, and a great program. Whaddya mean you didn't make it? Get with it folks!

(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**, 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 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.

de N8AUC Continued

(Continued from page 2)

We just finished the West Park Kiwanis July 4th parade (Guess when I'm writing this?). I don't have a complete list of all the participants but about 8 LEARA members helped Fred, W8ADW pull it off again this year. The parade went well and was filled with dignitaries, elected officials (Senator Voinovich, Congressman Kucinich, Mayor Campbell, Governor Taft) were all there, a whole host of wannabe elected officials, marching bands, keystone cops, and I saw TV coverage from channel 3 and channel 5 as well as another unmarked TV truck which I think was 19/43. Despite all the chaos and confusion that happens during staging, it looked good marching down Lorain Avenue. I don't know quite how that happens, but it does.

Upcoming in July, on the 21st I think, is the Metropolitan Bank (formerly National City) Triathlon. More help is needed, so if you can help contact Tom, KA8BZB. There's probably an article later in this issue about that. It's a great event. Robin and I will both be there - so don't you miss it either! And July is the annual LEARA Picnic. This will happen in place of our regular club meeting on July 30. Jeff N8YNR and Lori KC8MYE head up the picnic preparation and planning. If you can help, let Jeff or Lori know. They'll appreciate it, I know! And the July trustees' meeting is on the 13th. At the Parma-Snow branch of the county library, right across the street from Dimitri's starting at 9 AM. Another busy month.

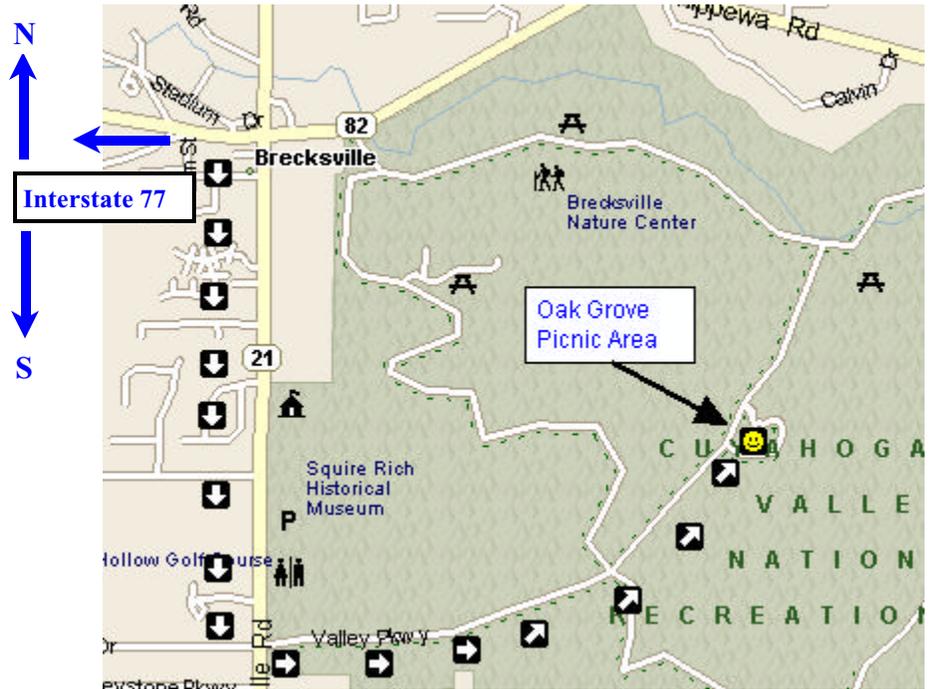
Remember - no meeting at Dimitri's this month it's picnic time instead! See you at the picnic.....

73 de N8AUC

Directions to the LEARA Picnic

Directions: Take I-77 to Rt. 82, Royalton Rd., and go east to Rt. 21, Brecksville Rd. Turn right (south) on Brecksville Rd. Go about 1.5 miles. The Metroparks entrance will be on your left. Once in the park, the Oak Grove Picnic area will be to your right. See the map below.

(Note: Rt. 82 east of Brecksville Rd. is named Chippewa Rd.)



June Door Prize Winners



Free Dinner: **Ryan Wilkins, N8YHV**



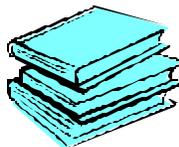
Portable Butane Torch: **Ken Kane, KG8DN**



One Year ARRL Membership: **Jerome Mountain, KC8NMX**



Phone Card: **Tom Foy, N4HAI**



RFI Book: **Bill Marx, K8WJM**



Phone Card: **Jeannie St. Marie, KC8MNW**



Portable Butane Torch: **Bob Winston, W2THU**

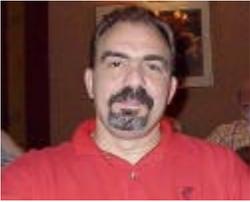


Mouse Pad: **Ben Wawzyniak, K8IV**

Association News

The June Meeting

Those who made it out to the June meeting at Dimitir's had the opportunity to witness one of the best meeting presentations in recent history. Jim Ries, Traffic Management Officer of the Cleveland Air Route Traffic Control Center (CARTCC) gave an incredible presentation on the daily operations of the CARTCC and also provided some fascinating insight into how the sky was cleared of all non-military aircraft in less than two hours on September 11, 2002 following the terrorist attacks.



Jim Ries of the FAA

Jim has been with the FAA for the last 22 years and served in the United States Air Force as an Air Traffic Controller for eight years prior to joining the FAA. Below are just a few of the interesting statistics regarding the Cleveland Air Traffic Control Center mentioned during the presentation:

- Of the 21 air traffic control centers worldwide, the Cleveland Air Traffic Control Center handles more traffic than any other center.
- The Cleveland Air Traffic Control Center is located approximately 30 miles west of Cleveland.
- There are approximately 730 employees at the center, of which nearly 520 are involved in air traffic control.
- The Cleveland Air Traffic Control Center is responsible for approximately 70,000 square miles of airspace including portions of seven states and one Canadian province.

Looking Forward

July 30 - Picnic Meeting - Oak Grove Picnic area of the Brecksville Reservation

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

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

Check out the newsletter
in color at

www.apk.net/leara/newsletter.html

With Sympathy

Our thoughts and prayers go out to the families of Don Raith, N8DJG and Ray Bayun, N8NAP. Both Don and Ray have recently suffered the loss of a sister. Our condolences are offered at this time of loss.

Association News

Antenna Day - Last Chance !!



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 by July 16th. 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

Welcome to the Club

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

- Scott Cerrito, KB8WOQ**
- Rich Samual, KC8TZU**
- John Scimienti, KC8UFH**
- Tom Gimmartino, KC8UFI**
- Jon Anhold, N8USK**

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

Field Day 2002 Testimonials

I Could Tell You about Field Day ...

de the Editor

As the editor of the newsletter I could easily compose a summary article for the 2002 LEARA Field Day activities but, in place of that, I will let two of the participants who came out to play at field day share their field day stories, in their own words.

73, de KC8OWL

Field day from a newbie's point of view

Steve Kinosh, KB8UTA

I'm not a newbie to amateur radio, but this is the first field day I have participated in. My son Jacob, KC8GHX and I got a chance to attend last year's field day and check things out a bit. When I got home, I immediately put the dates for next year in my planner.

We got there about 3:00PM on Saturday and things were in full swing. Three stations up and operating and quite a few people walking around and checking things out. Now I am basically a 2 meter repeater user, and I dabble a bit on 6 meters, but this was a great opportunity to operate outside the limits of my license. The 15 and 20 meter phone station were well manned so off to 6 meter land I went to see if I could make a contact or two. 6 was a bit slow Saturday afternoon and evening, mainly into North and South Dakota, and Nebraska. I think I made a total of about 10 contacts in 5 hours. Jacob did make a few contacts on 20 meter phone.

(Continued on page 6)

Association News

Field Day 2002 Testimonials - continued

(Continued from page 5)

Sunday was a bit of a different story. While I did not spend the night, my wife and I came back to join the rest for breakfast and some early operation time. Breakfast was great. Nothing like outdoor cooking to get you going in the morning. After filling myself on eggs, sausage gravy, and hash browns, back to 6 meter land. Sunday was nothing like Saturday. The band was open into S. Florida, and north central Florida as well as Michigan. 16 contacts in 2 hours. WOW!!!!!! This is why 6 is the magic band.

For all of you who did not make it to field day, plan on next year. What a great incentive to upgrade your license. After making some contacts on the club call, being able to do the same from home and not having to wait till next year. I am planning on upgrading to at least general in time for next year, so Eric won't have to be the only CW op. As Eric would say, "Be there or be square".

Impressions of my first Field Day, and why YOU should participate!

Marc Flanagan, KC8SIE

In no particular order

You will have fun It doesn't matter what you do or how much you "work" the radio. There is activity and interesting conversation all around you. Dive into it and you'll enjoy it.

You will learn something This is especially true for Technicians and interested, unlicensed, people. There is always someone who will be happy to explain something you don't understand. And you see it in action. The "veterans" can learn too. They can learn how the hobby is perceived by newbies and how they can make amateur radio understandable.

You will associate with people who enjoy your hobby. It doesn't matter what grade license you have or what aspect of the hobby excites you - you will find others who can relate.

Field Day is a true measure of our emergency preparedness both as individuals and as a club. We come to understand our personal endurance and our cooperation as a club. We determine our emergency power capabilities, and work with "field" station configurations (including dealing with the weather). Keep in mind that

this is the reason the FCC grants us our privileges.

You eat really well!

Whether you rag-chew or build your own equipment, whether you are no code or 30 WPM, whether you love phone or CW- Field Day is the way to prepare for what we are here for and enjoy what we do!



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

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 SAT: 10AM-6PM
 SUN: 1PM-4PM
www.noard.com

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Rick Wells - K8SCI

NOARD Inc

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

821 Pearl Road
 Brunswick, OH 44212

Up and Away

Chagrin Falls Balloon Fest

Patt McClain, N8RKP



Blossom Time in Chagrin Falls sets the backdrop of Balloon Competition opening in the United States. So, what does this have to do with Ham radio you ask?

Hams assist the police with traffic information, monitor the launch process, follow the balloon teams, and report progress back to the amateur operator stationed at the net control point. For the first time, updates were broadcast to the crowds thanks to Ray, N8EQT's public address (PA) equipment - Thank you Ray!. The crowds really appreciated the 'real time' status reports.

(Continued on page 9)

Public Service — Upcoming Events

Metropolitan Bank Triathlon

July 21st



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:

E-mail: ka8bzb@arrl.net
Phone 216-371-2832 (home)
 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.

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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 Multiple Sclerosis 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.

Cleveland Clinic Sports Health River Run

September 8th



The Half Marathon starts at 8:30 A.M. at Wallace Lake in Berea, elevation 774 feet above sea level, and finishes at the Memorial Fields in the Metroparks in Rocky

River, 604 feet above sea level. This downhill course promises to be a fast, competitive race. This is a point-to-point course. The course will remain open until 11:30 a.m. New for 2002 will be a 12 mile inline skating event and the ERC Corporate Division Half Marathon.

Volunteers are needed to provide amateur radio communication along the course. Please contact Eric, N8AUC, at 440-734-3146 or n8auc@hotmail.com to volunteer.

Field Day 2002 Pictures



Mark, KA4JVY, making Sunday breakfast



Maxx, K9DOG (hi hi)



We have POWER !!



Merle, KB8ENV



Jeff, N8YNR and Lori, KC8MYE at the 6m station



Mike, KC8OWL; Bill, KA8VIT; and Steve, N8TUA at the HF phone station



Kelly (waiting for her call to show up in the database) operates the HF phone station under the guidance of John, KC8FOC.



Steve, KB8UTA working a 6 meter band opening



Home away from home on Field Day



Eric, N8AUC at the CW station



Bob, W2THU; Merle, KB8ENV; Nina, and Jeremy, N1OTN



KA4JVY's Military Gear

To see all of the LEARA Field Day pictures please visit one of the following web sites:
<http://www.hamshack.ws/>
- or -
<http://www.qsl.net/ka8vit/fd/>



Mister Zachary

Up and Away, Continued

(Continued from page 6)

Thanks goes out to the following amateur radio operators who helped make this event a success.

Ray Suing, N8EQT	Allen Stay, KC8KHW
Tom Kimball, KA8BZB	Tim Lanese, KB8WII
Ken Kane, KG8DN	Dan Conroy, KC8TYM
John Tucker, N8MDP	Dave Foran, WD8APD
Bob Winston, W2THU	Marty Foran, WB8THD
Eric Hnanicek, KC8TJN	Pat Karl, N8ONI
Fin Stay, WD8ARM	Patt McClain, N8RKP

A special thanks goes to Tom, KA8BZB, who not only tracked the balloons to the high school, but followed them beyond – locating their landing area, wherever it may have been. Again, the crowd was delighted with the information and many went to the landing site once it was relayed.



Patt, N8RKP and Ray, N8EQT on the field



Giving it some fire

2002 Hamfest Listing

July

- 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
 Email: ljs@config.com

Volunteer Exam Dates and Locations

<u>Date</u>	<u>Location</u>	<u>Contact</u>	<u>Phone</u>
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
11/10	Independence	Gary Dewey	(216) 642-1399
11/17	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 Brecksville 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

PO Box 22823
Beachwood OH 44122-0823

FIRST CLASS MAIL

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 |

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