



The Spirit of '76 and '88

Fox Hunt!
August 27

(see page 8)

Newsletter of the Lake Erie Amateur Radio Association

Editor: Joe Prokop KC8RAN

Publisher: Jeannie St. Marie, KC8MNW

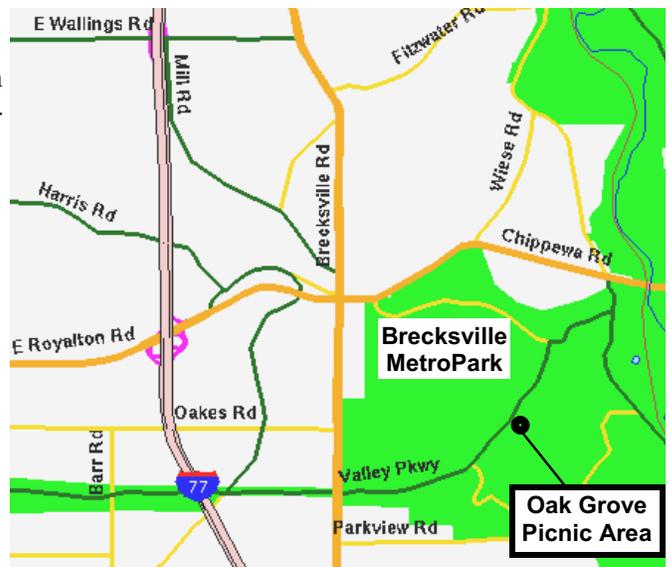
This Month's Meeting — July 25, 2006

PICNIC Meeting!

Please join us for the annual LEARA Picnic in the Park on Tuesday July 25, 2006. Last year's picnic was a success despite rain and wind, as we staked out the picnic shelter.

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 picnic in a wonderful secluded park setting. As advertised, this year's picnic is catered by Hoggy's, so no need to worry about cooking! But, anyone who can arrive early and stake out the site would help us get the shelter again as we cannot reserve it.

Get your reservations in early to Marv Grossman so we can get a good headcount. Contact Marv at (440) 248-0031 or w8azo@leara.org by Monday July 24 noon!



June Meeting-Field Day



July 2006

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Bryan Torok Radio Officer	N8OOF 146.88/R

Trustees and officers can be emailed at callsign@leara.org

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

Editor:

Joe Prokop, KC8RAN

de N8AUC

It's not often that you'll find me at a loss for words. But this is one of those times. Dayton is over, the Soccer Tournament finished, and now Field Day is in the books. All I can say now, is "Whew!" Field Day this year was just about perfect. If you missed coming to Field Day, then I truly feel sorry for you. But not too sorry, because we had loads of fun anyways. I'm not going to go into all the details, because you'll read about it later in this issue. Yet, for as much fun as it was, it would have even been more fun if YOU had been there.

One of the highlights of Field Day was seeing the May meeting presentation come to life as Joe KC8RAN made real live satellite contacts from Field Day.

Now for my cheesy impersonation of a low budget cable TV ad, "But wait... there's more!"

July 23rd brings one of our more fun public service events. The annual Cleveland Triathlon. This is where a bunch of crazy people jump into Lake Erie before 7AM and go swimming. Then after swimming about a mile or so, they get out of the water, and take a bike ride. About a 26 mile bike ride. Once that is done, then they get off their bikes and take a leisurely stroll. For a measly 6.2 miles. And the poor slob that does it the fastest is called the winner. Our job is to keep track of them as they partake of these leisurely activities. Occasionally one of them over does it a bit. Then we summon help for them. That's another job we have. My wife Robin like to watch the Triathlon because she enjoys seeing well built young men in Speedos. Like I said in a previous issue, it must be a girl thing because they do absolutely nothing for me. But she definitely likes it. If you'd like to join us and volunteer to help, contact Tom KA8BZB. As usual, Tom needs all the help he can

(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. 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

DE N8AUC

(Continued from page 2)

get.

Once the Triathlon is done, the next big event will be the annual LEARA picnic. That is always one of our best attended events of the year. I won't bore you with the details, since those are also found elsewhere in this issue of the newsletter. Let's just say that missing the picnic would be a big mistake. Big! Huge!

See you all at the Triathlon, then at the Picnic. Until then.....73 de N8AUC (da prez)

Congrats, And Thanks!

LEARA Has A Hero As A Member!

Received via email from Tom, N8ETP:

I'd just like to let you know that my daughter (and LEARA member) Kimberly Kopcak (KC8WTZ), a 2006 graduate of Westlake High School, has decided to enlist in the United States Coast Guard. She will be heading off to boot camp on July eleventh. Once boot camp is completed on September first, she will be assisting the local Coast Guard Recruiting Office by sharing her boot camp experience with other high school students. Then on September eighteenth, she will be leaving to attend Boatswain's Mate "A" School until December first. Please join me in wishing her the best of luck.

Congratulations go to Kimberly, as well as a heartfelt "Thank You!" for your service to our country.

Congrats to Patt N8RKP!

On July 7th, Patt McClain, N8RKP and Jim Romask celebrated their love and devotion in a private wedding ceremony. Jim is currently battling brain cancer. In lieu of gifts, the couple requests that contributions be made in Jim's name to:

The Hospice House of the
Western Reserve Atrium
300 E 185th Street
Cleveland, Ohio

Upcoming Meetings:

July 8: Trustees' Meeting

July 25: Picnic Meeting-Metroparks (usual site)

August 29: TBD-Dimitri's

September 9: Trustees' Meeting

September 26: TBD-Dimitri's

Note: Have any ideas for club meeting topics? Contact Tom W8TAB (w8tab@leara.org) .

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:

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) or as listed on page 2. See you on Saturday Nights on "88"!

Welcome Back to the Club!

LEARA proudly welcomes back...

JACK BALOGH, AA8US

Jack was a past member of LEARA from 1995 to 1998. If you hear Jack on the air, please welcome him back to the club!

Association News-Field Day!

From the VHF/UHF Tent

de Steve Kinosh
KB8UTA

After last year's heat wave, I did a lot of praying for cooler weather, and it worked. After no band opening to speak of last year, I burned incense in front of a picture of Hiram Maxim (the OM) and it worked too. Maybe I should pray for a vision of the winning lottery numbers?



The weather for Field Day this year was FANTASTIC to say the least. Mid 70's, blue sky, white clouds, and a GREAT view of the lake and all of the sailboats going in and out. THAT view was so good, that we almost had to chain Joe KC8RAN to the table where he was doing the satellite thing.

Last year, we managed a meager 17 contacts on 6 and about 30 or so on 2 meter ssb. This year, we had that in the 1st 2 hours. About 12, when doing equipment checks, you could hear a few 6 meter stations, so I figured it

wouldn't be a totally dead weekend. At 1:50, the band was dead, and I said here we go again, just like last year. Boy, was I wrong. At 2pm, EVERYONE running 6 meters turned on their radios and went at it. In the 1st hour, we made 13 contact on 6 and 2 on 2 meters and didn't stop. This went on all day with a few breaks in the action. At 10:30 that night, things were slow to the point that I figured it was time for some shut eye, and headed off to get some rest. I went and grabbed something to drink, and came back a few minutes later to get the rig and pack it away safe for he night and just for giggles flipped it on, and there was still activity on 6. My log sheets were soggy from being damp out, so off to sleep I went.

The next morning I was awoken to the wonderful smells coming from Gary and Janet's area. They had whipped up scrambled eggs, bacon, sausage, bagels and hot fresh coffee. For those non-campers of you out there, just ask a camper how good things taste cooked outdoors. After filling ourselves, we went back at it. Hooked up the rig to the battery and antennas, spun the dial and nothing. Uh oh, did I have the right antenna in the right jack? Yep, but still nothing. Turns out that EVERYONE was having breakfast. About 9am, things opened up again, but more on 2 meters than on 6. Most 6 meter contact Sunday were Ohio, Michigan and Indiana, where Saturday was the New England area up into New Brunswick, Nova Scotia and Prince Edward Island till about 7pm, and the band started to move south. Contact into Georgia, northern Florida, Alabama, Louisiana, and then into Texas.

To make a REALLY long story short, at the VHF/UHF station, we finished with 79 contacts on 6 meters and 10 on 2 meters. NOT too bad in a down cycle. Special thank's to Jacob KC8GHX for helping to get the antennas and equipment set up, and to John KC8FOC for helping with teardown. And thanks also to Janet who REALLY kept this group well fed. This year is in the books, but we have started planning next years antennas. Hey Eric! I'm going to need a LOT of help getting that 6 meter beam with a 18 foot boom up in the air!!!!



"VHF Valley"-in the foreground is the VHF/UHF station, manned by Steve KB8UTA. In the background is the satellite station, operated by Joe KC8RAN. Good, open spaces meant plenty of openings in the trees to shoot through, especially for the satellite station.

Field Day! de N8AUC

Field Day 2006 had to be one of the best Field Days ever! The weather was simply gorgeous with bright sunshine, deep blue skies, and temperatures in the mid 70s. The propagation gods were also smiling on us (especially on 6m according to KB8UTA), it was just about a perfect weekend.

We arrived at the site at about 9AM on Saturday, only to find that our usual spot was being taken over by a church group for a picnic. Anything not chained down, like picnic tables and trash barrels, was being gobbled up by them. So we just moved to the north end of the park, which actually worked better for Mr. Space Cadet himself, our own AMSAT guru Joe, KC8RAN. He ended up with a clearer shot at the satellites because of the move.

Setup went pretty smoothly, until I overheard some folks talking about what kind of wire antennas they bought. WHAT?!?!?! People actually BUY wire antennas for HF? You've got to be kidding me. Especially when I got asked what kind of wire antenna I bought. So I pulled out the spool of wire I bought at Electronic Surplus (for the princely sum of \$0.02 per foot), and proceeded to show them how to make one. I fabricated a 20 meter dipole, and had it in the trees in about 30 minutes. Because it was cut to exactly the right length (must've really screwed up there - they ALWAYS require trimming), no antenna tuner was needed. Anyone who was there to see that on Saturday should never plunk down hard earned cash to buy a wire dipole ever again. The cost of the entire spool of wire (1000') was 1/4 the cost of a commercially built wire dipole. Add the coax and insulators, and you're still money ahead. See - going to Field Day can actually save you money. You never know WHAT you might learn.



John, KC8FOC manned our information tent, and served as our tour guide and good-will ambassador. He got a little upset at the rest of us, though. Seems he had a

doughnut accident involving melty chocolate and the front of his pants. None of the rest of us noticed, but when HE noticed, a quick costume change was in order. I guess he was a little embarrassed by the doughnut stain. And since none of the rest of us had a clue, we didn't point it out to him.

Shortly before noon, Mary KC8YLC (XYL of K8EHP) arrived with lunch. She brought us a 6' Subway sub sandwich, which sure hit the spot after a morning full of work setting up tents and stations. Thanks, Mary!

The operating portion of Field Day started at 1800UTC, which is 2PM local time, and WB8CQR was on the air.

Squeals of glee were heard from the VHF/UHF tent when Steve KB8UTA found six meters was open and working well.



Not much was heard from the phone station, where Mike K8EHP and Rich N8RB were working. In fact, we had to walk into their tent and tap them on the shoulder when it was dinner time because they were wearing headphones and lost all track of time. But those two really racked up the contacts.

20 meters was going gang busters, and the hardest thing was separating the closely packed stations. The bands were wide open, and quite crowded, which made things loads of fun!

Our friends from Hoggy's delivered dinner right on time at 5:00PM. The chow line formed up quickly as we sat down to eat dinner. Somehow the food just tastes better when you're outside. A brief club meeting was held after dinner. We were going to draw for door prizes, when it was discovered that about the only thing that El Presidente forgot to bring was the gray metal box with the prize

tickets. Here comes Joe, KC8RAN to the rescue with one of those tiny little spiral notebooks. We drew the door prize winners by pulling names from a hat. Or we were going to, until Marilyn (XYL of KB8UTA) whipped out a handy dandy tupperware-like container for us to use. The turnout for dinner and the club meeting was a little light, but that's OK because we ordered less food this year, too.



Gary, WA8TJL who camped out on 40 meters CW the whole weekend, was really racking up the contacts as well. He even kludged together an old DOS-based laptop to run from 12 volts and used it to log his contacts.

Speaking of XYL's, special commendation goes to Janet Zimmet, XYL of WA8TJL. She jokingly refers to their operation as the "battery powered Taj Mahal", but she never ceases to amaze us with her array of outdoor cooking gadgetry, including a Mr Coffee like device that doesn't use electricity! This explains why Tom N8UAZ, who is a bigger coffee-a-holic than I am, was her best friend all weekend! Janet also had enough goodies on hand for chili dogs on Saturday and breakfast on Sunday. She takes very good care of our Field Day crew and all the visitors! Thanks, Janet!

At 6:30PM it was time to work the satellites. Joe, KC8RAN had quite a crowd gathered around to witness this. But no joy on the first pass. Later it was discovered that the supports for his tent were interfering with his 70cm antenna. Once the sun began to go down, he took his tent down, and then he started "hitting the birds". Ironically, the first contact which nailed a 100 point bonus for us, was through the oldest of the old timers, Oscar 7. Oscar 7 dates back to the late 1970s, but it still works, as long as you can catch it in sunlight. The batteries are long dead, but everything else pretty much works as long as there is power, which now can only be provided by the solar panels. Joe caught the last pass before the satellite crossed "the terminator", which is the point where the satellite passes into the shadow of the earth. Contact #2 was another stroke of luck as he was able to hit the crossband repeater aboard the International Space Station. Something malfunctioned aboard ISS, because it was the last pass of ISS where the

crossband repeater was working. Nice job on the Satellite Station, Joe!

By Sunday morning I was running out of gas, but the other guys were still cranking. That's when the best part of Field Day happened, at least for me. My daughter Becki came over and sat down next to me as I was working 20m CW. She seemed to be intently listening to what was going on. I asked her, "Can you imagine that all those beeps and boops are actually people talking to one another?" Then I asked her if she would like to try talking like that, and she responded yes. So I cranked the RF output on the rig down to zero, so basically it was a very expensive code practice oscillator. We then spelled out her name, and I wrote down the dots and dashes for her. Explaining that each letter had it's own pattern in Morse Code. I turned the keyer speed down as low as it would go (about 5 WPM) and then showed her how to work the bencher paddles. Once she got that, I moved them over to her, and had her send her name in Morse Code. Her face just lit up as she said, "Wow Dad! That was really cool!" So she did it again, just grinning the whole time! Then Mike WF8P came by with his young nephew Sam. I repeated the exercise with Sam, and got a similar reaction. You should have seen the big grin on Uncle Mike's face at the same time.

On the drive home, Becki asked me how old you had to be to be a ham radio operator. I told her that there was no age limit, and that kids as young as 4 had done it. That's when she really made my day by proclaiming, "Dad, I think I want to be a ham radio operator, too." There aren't enough bonus points in the world to score that one.

Don't miss Field Day 2007! It's always the fourth full weekend in June, which makes it June 23 and 24, 2007. Mark your calendars now and plan to join us.



73 de N8AUC

Satellite Station A Success, Sort of...

This was my first Field Day actually out in the field. I worked a couple of them from home "on the mains", particularly on Sunday. This year I wanted to go out and try setting up using the IC-910 and the Arrow antenna. No computer controlled doppler compensation and rotor control. Just basic equipment and experience. It started out with a bad omen. SO-50, while running only 1/4 watt, usually is easily heard at home. In fact, I had made a contact over SO-50 last fall with an HT and the Arrow antenna. This time, however, with a more sensitive receiver, it was nowhere to be found on a great pass 15 minutes before Field Day was to begin. Uh, oh, not good!

Now the hard part; the first legal FD pass was 4 1/2 hours away. FO-29, an SSB satellite, was due at 6:30 with a favorable elevation. So what to do during the wait. By 3:00 I was already jealous of the VHF/UHF station Steve, KB8UTA, was running. It seemed like he was hitting on all cylinders on 6 meters. The phone station was busy racking up contacts, and the CW station was clicking away on 20. This happened despite my attempts to pull down the newly-constructed dipole. After tripping over the coax and nearly pulling it right out of the connectors, I was put in "time out".

After the appropriate messy chocolate donut to stain the FD T-shirt (if you were at the site, you would know why the stain was important!), I called the wife to see if she would bail me out if I was arrested for stealing a sailboat (my summertime passion is sailing). There was a regatta out over the horizon and was really wishing I was out there with them. I think she's still likes me, but won't put out the dough. I think she said tough something, but I couldn't understand it over the laughter. Steve, KB8UTA put me in time out again, threatening to use the excess wire N8AUC brought to tie me down.

Finally, dinner time rolled around, then it was "showtime" at the satellite station. For some reason, all Field Day activities seemed to stop and a crowd was gathering around. No pressure there! At the appointed time, I was listening for the CW beacon but heard nothing. I tuned to the mid-band point and began to hear the satellite come to life. I went up to the higher part of the passband and successfully did a loop test where I sent a signal up, adjusted for doppler and was able to hear it come back down and with reasonable strength. Now to get some points!

Not so fast, bucko! SSB satellites have a 100 khz passband. Available power is spread out among the stations on the passband proportional to the input signal level received. Here I am, essentially a QRPer with a low gain antenna competing against some relatively loud stations. But we gave it a try and almost made a contact with W9VPV, but ran out of pass time.

This pass was followed by a good pass from the ISS, running the crossband FM repeater. This would be real difficult, both for the single FM channel transponder and the fact that the uplink to the ISS was at 437.8 Mhz, making the doppler swing +/- 10 khz through the pass. I couldn't even get into the



machine due to the crowd trying to get in, among other factors.

Oh, well. It's going to be a long night! Next up was AO-7. AO-7 is an old satellite that originally was dead. However, over time the batteries opened up, allowing the bird to function when in sunlight running off of the solar panels. When it comes up, it may activate the 2 meter up/ 10 meter down transponder (Mode A), or the 432 MHz up/ 2 meter down one (Mode B). Because of the power situation, AO-7 is best worked using CW. SSB can come across very unstable and in some cases unreadable. I had 1/2 hour to kill, so I took the tent down that was keeping the rig in the shade. By now, everyone was off to do their FD thing, leaving myself, Darren K8DMT and Jake KD8CDC all by ourselves in the twilight in the big open field, hoping for Mode B.

Heads, I win! Mode B! After some adjustment for doppler, I tried to make a CW contact. The excitement and the rust really came into play as I was awful with the paddles. Switched to SSB and finally was able to work W9LDX for the satellite QSO, after remembering to switch to the correct sideband on the uplink! Just to show off, we successfully worked WB2SIH over the ISS crossband repeater. 102 points in about a half hour! Take that, Steve! I even tried to get into AO-51, the graveyard of FM transponders due to the inexperienced users that usually crowd that FM transponder. No joy there, but who cares!

Lessons Learned: This is a contest and what worked for casual backyard operation won't cut it under contest conditions. Next year's attempt will need better antennae. And, by the way, they need to be above those metal rods in the tent frame (kudos to John, KC8FOC for realizing that!). Finally, practice is needed with the paddles, or bring the straight key. Field Day '06 was a success in that we made the satellite contact for the 100 point bonus, plus 2 points for phone QSO's. Next year, the goal is to get 5-10 contacts. While it seems a small contribution, every contact helps. Maybe in 2-3 years, one of the HEO sats (P3E from AMSAT-DL and/or Eagle from AMSAT-NA) will really make the satellite station a bigger contributor. By the way, if anyone needs crew for their sailboat...

Announcements and Upcoming Public Service

Cleveland Triathlon—Final Call! **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 kaeightzbz@att.net, or give me a phone call at 216-371-2832 some evening.

Pedal to the Point **August 19-20, 2006**

The 2006 National MS Society Buckeye Chapter's Pedal To The Point will be held on August 19th and 20th this year. This event is one of the premier opportunities in Northern Ohio for Ham Radio to demonstrate our ability to communicate in unique scenarios while supporting an event that aims to raise over one million charitable dollars in two days. While covering a 100 mile course of back roads in rural Ohio across multiple counties we provide emergency medical and welfare communications for a 2000+ bicycle slow-paced tour. The event begins at the Berea fair grounds, travels two different paths to get to the lunch stop in Oberlin, and then proceed to Sandusky High School. While the majority of our volunteers are repeat annual addicts we welcome any radio operator interested in getting involved in this event.

With the use of GPS/APRS tracked medical units and radio operators we provide emergency first response in the event of accidents, injuries, and lost riders. Unlike any other event radio event the radio operators and volunteer medical teams are a key support staff on and along the route. Volunteers should have a mobile with at least VHF abilities. HT coverage is useful but not always guaranteed. UHF repeater(s) are used for back up communication in the event that severe weather bumps us off Skywarn frequencies, and for informal off-net assignments. If you can lend a beaconing GPS tracker to the event for medical units please contact me.

If you've volunteered for Pedal To The Point regularly your favorite position is waiting for you, and if you've never bit the bullet why not come out this year and have some fun, even if just for one day?

Email me (jeff@cia.net) or leave me a voicemail at (216) 496-3928.
-Jeff Garvas, N8YNR

Attention Fox Hunters...The Chase Is On!

Sunday, August 27, 2006 at 14:00 Hrs (local) is the date and time for the latest hide and seek fun in the Cleveland area. Mike (K8EHP) will be your fox using the two (2) meter band. This will be a driving event. The starting location and exact parameters will be announced in weeks to come. Probably a three (3) hour maximum time limit will be enforced if necessary but I doubt things will run that long. Stay tuned for further details and plan to join in the fun. Pass the word to everyone you know. The more the merrier!

Hamfest Listing

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

20 Aug 2006

Warren Amateur Radio Assn Hamfest

KSU-Trumbull County Campus

4314 Mahoning Ave (Rte 45) and

Rts 5/82 Bypass

Outdoor flea market and indoor exhibits

http://kc8pvh.com/hamfest_flyer__2.pdf

Contact: Jackie Williams

Phone (440)

Email: jaquelinewilliams03@hotmail.com

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

Need help with getting your license or upgrading to the next level. Contact LEARA by email to elmer@leara.org or visit the club website at

www.leara.org.

"It's Easier Than You Think!"

Volunteer Exam Dates and Locations

(from the ARRL website)

29-Jul-2006

Sponsor: WRECS

Time: 9:00 AM (Walk-ins allowed)

Contact: ROBERT C GAUSS

(330)562-3328

Email: N8ZB@YAHOO.COM

Location: BENTLEYVILLE TOWN HALL/CHAGRIN FALLS

6253 CHAGRIN RIVER RD

CORNER SOLON RD & RIVER RD

BASEMENT

BENTLEYVILLE, OH 44022

30-Jul-2006

Sponsor: PORTAGE COUNTY HAMFEST

Time: 10:00AM (Walk-ins allowed)

(WALK INS AT 9:00 AM!)

Contact: WILLIAM H SHOWERS (330)872-1929

Location: PORTAGE COUNTY FAIR GROUNDS

STATE RT 44 RANDOLPH, OH 44265

05-Aug-2006

Sponsor: LAKE COUNTY ARA

Time: 12 NOON (Walk-ins allowed)

Contact: SCOTT FARNHAM (440)256-0320

Email: SCOTTFARNHAM@ADELPHIA.COM

Location: KIRTLAND LIBRARY

9267 CHILLICOTHE ROAD ROUTE 306 1.7 MI S OF I-90

KIRTLAND, OH 44094

20-Aug-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

Location: AMERICAN RED CROSS 2929 W RIVER RD N

WWW.W8HF.COM (HOME PAGE) ELYRIA, OH 44035

20-Aug-2006

Sponsor: WARREN ARA (Warren Hamfest-see notice)

Time: 9:30 AM registration

Contact: DENNIS CARRERHER (330) 92404342

Email N8IVE@ARRL.ORG

Location: KSU-Trumbull County Campus

4314 Mahoning Ave (Rte 45) and

Rts 5/82 Bypass

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 (Requires 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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