



The Spirit of '76 and '88



Newsletter of the Lake Erie Amateur Radio Association

Editor: Ron Jakubowski, K2RJ

Publisher: Jeannie St. Marie, KC8MNW

SKYWARN Spotter Training Featuring NWS's Gary Garnet Tuesday, March 31, Dimitri's Dinner Meeting

The snow piles are gone, the sun has been shining and we're now planning to fix those "temporary" mid-winter repairs made to our antennas that were victims of the snow, ice and/or windstorms. Even though we thought some of our winter weather was *severe*, now is the time we start planning for the real thing—spring thunderstorms that spawn tornados and floods.



Gary Garnet, the Warning Coordination Meteorologist at the NWS Cleveland Regional Weather Station will again be teaching us the latest techniques to observe *wall clouds* and to determine whether or not the cloud movement we are seeing is *rotation*, as well as estimating wind velocity, hailstone size and inches-per-hour of rainfall.

The dinner and meeting are at our usual place, Dimitri's Restaurant, at 1830 Snow Rd., Parma, Ohio (in the Mid-Town Shopping Center, just west of Broadview Road).

Dinner will be served at 6:30 PM and the formal meeting will begin at 7:30. Meetings are open to all interested persons. You may attend without eating, but reservations are required if you do wish to eat. 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 **\$16**. 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 A.M. OF THE MEETING DATE.

Please call in your reservation and your menu choice to Marv Grossman, W8AZO, at 440-248-0031. You can also visit www.leara.org and make your reservation through the club's website. -AR-

Is this your last Newsletter?

LEARA Dues are now past due and payable and the grace period expires March 31st. Dues are now officially \$25 and may be paid at the meeting. Don't miss out... pay up!

OFFICERS	
Alex Manuk President	WD8JMM 216-459-8523
Jim Ozello Vice President	N8XDO 216-475-7218
Eric Jessen Vice President	N8AUC 440-734-3146
Bob Winston Secretary	W2THU 216-771-3314
Dave Foran Treasurer	WB8APD 440-942-0618
Eric Jessen License Trustee	N8AUC 440-734-3146
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Jeff Kopcak	K8JTK k8jtk@arrl.net
Raye Bayun	N8NAP
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Marv Grossman	W8AZO 440-248-0031
David Noeth	KD8ACO
Ron Jakubowski	K2RJ 440-498-1512
John Radney	KC8FOC 216-469-4361
Bryan Torok	N8OOF 440-871-5456
Mike Cegelski	K8EHP 216-252-6640
Jeff Garvas	N8YNR jeff@cia.net
TRUSTEES EMERITI	
Al Amster	W8TTY
Don Raith	N8DJG
Fred Collins	W8ADW(SK)
Pat Shreve	W8GRG (SK)
Al Severson	AB8P (SK)
POINTS OF CONTACT	
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Ron Jakubowski Radio Officer	K2RJ 440-498-1512
Bryan Torok Radio Officer	N8OOF 440-871-5456

The *Spirit of '76 & '88* is published monthly except in December. Contributions must be received by the 2nd Sunday of the month (except on months with 5 Tuesdays, when the 3rd Sunday will suffice.)

Editor: Ron Jakubowski, K2RJ

E-mail: editor@leara.org

The Prez Says

by Alex Manuk, WD8JMM



As I write this, the snow has melted, the temperatures have risen, and we've had our first series of thunderstorms for this season. Perfect timing for this month's meeting program, Skywarn.

Skywarn doesn't get the attention it used to before the internet and cellular telephones made storm reporting simple for the layman. Before the advent of all this new-fangled electronic wizardry, there were just ham operators, helpfully reporting weather conditions via FM

repeaters. Nowadays, even Gary Garnet, our speaker for this month's meeting, encourages people to report storm data via the internet.

But what happens when your power's off or your phone is dead?

That's where Skywarn comes in. LEARA's repeater system (and the rest of the Skywarn network in Northeast Ohio) are configured with backup power and have ridden out many power outages, downed phone lines, and various other catastrophes, and will continue to do so. I know it's a well – worn buzzword anymore, but emergency preparedness in the form of keeping your HT charged, spare batteries, etc., makes a LOT of sense as we move into severe weather season.

But Skywarn also needs YOUR help. Participation has dwindled over the past several years. Used to be, during severe weather, you could populate a map with an entire box of push pins to show where the 'spotters' were located. Nowadays, I think you could get by with a mere half dozen or so. I realize that life gets busy, priorities change, and playing radio during a thunderstorm is probably not highest on most people's list of 'fun stuff to do'. But I encourage you to take the time to check in during a severe net. Let net control know where you are, what you're seeing, and if you can stick around for a while, that's great, too.

Speaking of net control – Cuyahoga County Skywarn is currently overseen by Don Byrer, KJ5KB, and I know Don would REALLY appreciate some help with NCS duties. If you're interested in getting involved (at ANY level) be

(Continued on page 3)

The Lake Erie Amateur Radio Assn., Inc., LEARA, is a not-for-profit [501(c)(3)] organization dedicated to Amateur Radio and 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 \$25.00. 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 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 on the second Saturday of odd numbered months at 9 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.

(Prez Says continued from page 2)

sure to check into the Skywarn weekly net, on .76, Wednesday evenings at 8.

I hope to see many of you at our March meeting. Gary Garnet's weather presentation gets better every year, and the house is usually packed. Come on out for a good meal, and some good weather training.

73 for now -AR-

LEARA: Past—>Future

by Ron Jakubowski, K2RJ

It is obvious by its bylaws that LEARA was originally formed as a VHF Repeater club. Back in the late 60's and early 70's, VHF repeaters were the newest thing Amateur Radio had to offer. There was also a natural synergy with public service events and we were called to help out almost weekly on various summer events. In the late 80's we added packet nodes to keep up with the latest digital transmission technology. Since that time, for all practical purposes, the club has been stuck in "neutral".

One of the main justifications for maintaining repeater systems was to provide emergency communications capabilities: on a wide-area basis for Skywarn (and other public events), on a more local basis for reporting accidents and other incidents through the special 911 autopatch function, and, on a more personal side, providing rudimentary telephone connectivity through the autopatch. In today's cellphone and wireless internet connected world, the only function that remains primarily on amateur radio is Skywarn.

The one thing the club has in its favor is that it's never had the word *Repeater* in its name. By default, in order to survive at all, it has, at least partially, redirected itself as a more general-interest Amateur Radio club. In the past, the club grew because it latched on to the hot technology and operation of the day, Amateur Radio repeaters and the public service events they facilitated. If we are to grow again, we need to latch onto "what's hot" in technology and amateur radio today. And we must agree to give up some of the things of the past that, even if not dragging us down, are nevertheless like all the "good stuff" in the garage or attic, or even the shack, that keeps getting in our way.

I've noticed that there seems to be a lot more activity on 88 recently since IRLP has been working. I believe it's even gotten us a couple new members. We need to capi-

talize on this and other new (at least to us) technologies. Are we using/promoting EasyPal on our SSTV net? If not, why not? Have we considered upgrading our packet nodes so they could become part of the Winlink system? How many of us know what the Winlink system is and what it does/can do?

I suggest we start by agreeing among ourselves what kind of club we want to be and say we are. It's obvious that if we insist on just being a "repeater club" we'll die. We could be a "general interest" club. However, I believe that with the membership we have and our history we should consider billing ourselves as a "technical interest" club. Maybe there are some other options out there I am not thinking of... But whatever we do, we must agree to update our bylaws to cover it and get rid of sections that make no sense given the present day environment.

What do *you* think? [E-mail me](#) or the Trustee of your choice and let us know. There's always room in this newsletter for club member's ideas! -AR-

DO YOU HAVE YOUR LEARA BADGE?

If you never received your badge, or if you wish to change your badge due to a change in call letters, or if you need to replace a lost badge then please notify Bob W2THU via email: w2thu@arrl.net. First time badges are free. Lost and upgraded badges cost \$5.00



LEARA is an Affiliated Club of the ARRL. If LEARA members join or renew their ARRL membership through the club, the LEARA treasury gets to "pocket" a portion of your dues. Another neat way to support your local club!

VHF D * Star Repeater WB8THD Up and Running in Cleveland

by **Dave Foran, WB8APD**
dave@dstar.hamnet.org

Greetings fellow radio operators. After a series of setbacks and lack of time and, well, any other excuse you can think of, a small group have made strides in getting D*star on the air in Cleveland.

Thanks the generosity of **Ron Jakubowski, K2RJ, Bob Winston, W2THU, Marv Grossman, W8AZO, Dave Foran, WB8APD, and the help of Bill Hess, K8SGX, oh, and a donation from Icom**, D*Star is a reality. It officially went live as a local repeater on Sept 26, 2008. But a 2nd set of issues left the system in limbo for a while; namely, the failure of 2 power supplies. A third was substituted on loan until a fourth was placed in service February 28, 2009.

The system is on 145.350 MHz (-600) and is connected to the D*Star Gateway Network. We have no idea of present system coverage; from its downtown location, it will favor the lake plain. There are plans to try to implement UHF, as we have the shelf, but that is down the road. At present, there are no plans for 1.2GHz voice or data. Radios for 1.2GHz are very costly and coverage can be very poor.

The week of Thanksgiving, cabling was found and traced to get internet connectivity. Saturday, Feb, 28, we tried to make the Ethernet link live, but failed. A second attempt on March 7th proved almost a failure also. But we persevered! Borrowing a H/P WireScope 350, we attempted to make a link. After replacing some connectors, the link was still very intermittent. More testing made us realize that we had 527 feet of cable! We forgot that the D*Star equipment is on the north side of the building and the network source is in the south side of the building. Then there is approximately 200 feet going horizontal somewhere in the building plus and an added 100 feet to get from the switch/hub to the cable riser. The long and short of it was that 100 megabit Ethernet was not going to work. A last ditch effort was to place a Linksys 10 megabit hub behind the switch to force the link to 10 megabit and, *voila* -- rock solid to the D*Star box.

I want to thank **Tim Barrett, K6BIV**, a former area resident now in Pittsburg, CA.. Tim heard that the system in Cleveland was in the building stages and called and offered to configure the Gateway server to get it on the network. THANK YOU, Tim! -AR-

WRC-11 Agenda: Opportunities and Challenges

via ARRL

The next World Radiocommunication Conference (WRC-11) is scheduled for fall 2011. These periodic conferences of the Member States of the International Telecommunication Union (ITU) consider allocations to the various radio services -- including the Amateur Radio Service -- and evaluate what new technologies and applications should be addressed by future conferences.

The agenda for WRC-11, developed by the delegates at the last WRC in Geneva in 2007 (WRC-07), was formally adopted by the ITU Council in 2008. There are 25 agenda items addressing potential new or revised spectrum allocations to existing services. Of most interest to amateurs is agenda item 1.23, "to consider an allocation of about 15 kHz in parts of the band 415-526.5 kHz to the amateur service on a secondary basis, taking into account the need to protect existing services."

"This agenda item is the highest item on my long term priority list," said ARRL Technical Relations Manager Brennan Price, N4QX. "We are fortunate that WRC-11 presents an opportunity for a new secondary allocation in the medium waves. While the outcome in 2011 is far from certain, our experience in other bands -- most notably 30 meters -- indicates Amateur Radio's compatibility with certain other services as a secondary user."

Price said that some WRCs have posed great challenges for Amateur Radio, with blocks of spectrum potentially at risk. "This was the case at WRC-03 and WRC-07, which posed a very real potential reallocation of portions of the 40 meter band in Region 2 to HF broadcasting," he said.

"The agenda for WRC-11 does not pose any threats to Amateur Radio as clear or as overt as those faced in prior years." Price and ARRL Technical Relations Specialist Jon Siverling, WB3ERA, are monitoring developments on a number of other agenda items that could affect Amateur Radio if they take unanticipated turns, including:

Agenda item 1.14, considering requirements for and implementation of the radiolocation service (radar) between 30-300 MHz.

Agenda item 1.15, considering possible allocations between 3-50 MHz for oceanographic radar applications.

Agenda item 1.19, considering regulatory measures to enable software-defined and cognitive radio systems.

Agenda item 1.22, examining the effect of emissions from short-range devices.

"Oceanographic radar is perhaps our biggest defensive issue," Price said. "Fortunately, its proponents, at least domestically and at least at this time, are acknowledging that sharing with Amateur Radio would be problematic." WRC-11 is tentatively scheduled for 2011. -AR-

March Trustee Minutes

(14 March 2009 at the Parma-Snow Branch of the Cuyahoga County Library in Parma, Ohio)

Trustees present: WD8JMM, KD8ACO, KC8FOC, K8JTK, WA8TJL, K8EHP, WB8APD, N8NAP, N8AUC, N8OOF, W8AZO. Excused: W2THU, N8XDO, K2RJ. Guest K8DMT.

The meeting was called to order by WD8JMM at 0918. Alex encouraged all to arrive by 9AM to ensure a prompt start to the meeting.

Corrections to and Acceptance of the Minutes of the previous meeting: Item #17, sentence 3 Dave should be Tom. Moved by APD, seconded by EHP. Acceptance passed unanimously.

Treasurer's Report: WB8APD reported that LEARA has sufficient funds in its bank account. All bills are current.

Membership Report: W8AZO reported that 202 members have renewed and are current. There are 39 delinquencies, which includes one trustee (N8YNR).

Programs for 2009: W8TAB was absent. For the short term we are OK. Still need programs for August and September.

Trustee Emeritus: Plaque for N8DJG – no change since last meeting. Should be expedited.

Technical Committee: K2RJ via email. IRLP transmit audio needs to be increased by 6-10dB. New 76 repeater has RC-850 interfaced and working. New 76 has a nice new HP power supply, but it requires a 220VAC mains supply. This needs to be taken into account during site selection. APD reports we spend \$50.44 at the west side site, and \$33.11 at the east side site for phone service. West side charges include the DSL line used for IRLP.

New Site for 76: No change in status. Still pursuing a location on the county tower via ARES and the County EOC.

License Class – WA8TJL. We had 5 students. One of whom is known to have passed his exam. Status of the other 4 is unknown. Class is considered to have been a success.

Comprehensive plan for LEARA – K2RJ via email. Discussion ensued. K8JTK offered to help K2RJ with writing the plan. Suggestion from WD8JMM – how about a clickable link in the newsletter PDF file to allow members to submit suggestions to the board of trustees via email. Discussion on how to do this followed.

N8AUC reported that Field Day is June 27 and 28, 2009. LEARA site will be at the usual location, in the Cleveland Lakefront State Park, in the area known as Upper Gordon. This is the same location used in previous years. Those with an interest in helping to plan this years event should contact N8AUC or WA8TJL.

LEARA + ARES: FOC moved, EHP seconded that we invite ARES to our Field Day event, as we are the only significant Field Day Site in the county. Other clubs have Field Day, but their sites are not in the county. This invite should include county EOC reps too. Motion passed unanimously. Next ARES meeting on Sunday 03/15/09 at the Beachwood Library. All LEARA members and trustees are encouraged to attend.

Old Business: None.

New Business: N8AUC moved and WB8APD seconded that we procure QSL cards bearing the club call sign, its logo, and logos of its affiliations. Cost not to exceed \$50. Motion passed unanimously.

New Business: N8NAP suggested that we program the RC-850 for 88 to be different if IRLP is active. Discussion ensued on how best to accomplish this.

Election Committee Appointment: WD8JMM appointed N8OOF, WA8TJL, and W8AZO to the election committee. It was recommended we also appoint KA8BZB. Alex indicated he would talk with Tom about this.

N8OOF came across some tri-fold brochures and business cards advertising LEARA. After discussion, it was found that these were prepared by KC8GHX and KB8UTA. WB8APD agreed to scan the tri-fold and correct some of the information therein. He will also investigate getting more of those cards made to be used as handouts at Field Day, and the club table at the Cleveland Hamfest.

WB8APD reports that D-Star is now on the air, and connected to the Internet. Frequency is 145.35 MHz, - 600KHz offset, no PL. Location is in downtown Cleveland. You must have a D-star capable radio to use this repeater.

Motion to adjourn: WB8APD moved, seconded by W8AZO to adjourn at 11:03 AM. Motion passed unanimously.

Respectfully submitted,
Eric Jessen, N8AUC

Acting in place of Club Secretary – and new Grandpa – W2THU who was in Wisconsin for the birth of his grandchild. -AR-

LEARA "On The Air"

Club Net Information

by David Noeth, KD8ACO

4/2/09	David	KD8ACO
4/9/09	Eric	N8AUC
4/16/09	Ken	KG8DN
4/23/09	Don	KD8ICR
4/30/09	Bob	W2THU

Please extend a warm welcome to the newest Net Control Station for the Thursday Club Net, Don, KD8ICR. Don will be joining the rotation later on this month. Everyone's participation in each and every net is greatly appreciated.

Wednesday Skywarn Practice Net

Skywarn practice nets have returned on the 146.760 (-offset, 110.9 PL) repeater and will continue on Wednesday nights at 8:00 PM local time until the last week in October. Everyone is welcome! The 146.880 (-offset, 110.9 PL) repeater is used, when needed, as a backup. Skywarn nets may be activated on one of these repeaters anytime threatening weather is approaching.

Thursday Club Net

The Lake Erie Amateur Radio Association's weekly club net is held every Thursday evening at 8:00 PM local time 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. You do not have to be a member of LEARA to participate.

Since the club net is a practice and informal net, LEARA would like to recognize those who take the time to check in and keep the net active and alive. During the past month, the weekly Thursday Club Net had a total of fifty-nine (59) check-ins. The following were reported by our net control stations to have participated:

Andrew AB8MO, Randy K8CLE, Gene K8ECL, Mike K8EHP, Jeff K8JTK, Steve K8SAS, John KA8GZA, Mark KB8FKM, Greg KB8PEC, Leone KB8VBR, Jeff KC8FNK, Mark KC8FQV, Tim KC8KTE, Jeannie KC8MNW, John KC8ODH, Joe KC8RAN, Jean KC8TJH, Jessica KD8ACJ, David KD8ACO, Jeff KD8HYU, Don KD8ICR, Keith KD8KBL, Ed KE8ZZ, Ken KG8DN, Eric N8AUC, Tom N8UAZ, Ed NC8ED, Bob W2THU, Matt W8EBB, Stuart W8STU, Gary WA8TJL, Bill WA8VCC, and Steve WD8INO.

Net Control Stations: Eric N8AUC, Ken KG8DN, and Bob W2THU.

Upcoming NCS assignments are:

3/19/09	Don	KD8ICR
3/26/09	Bob	W2THU

Saturday SSTV Net

The Lake Erie Amateur Radio Association's weekly slow scan TV net is held every Saturday evening from October through May at 8:00 PM local time on the 146.880 (-offset, 110.9 PL) repeater. Now is the time to get your SSTV station setup and on the air.

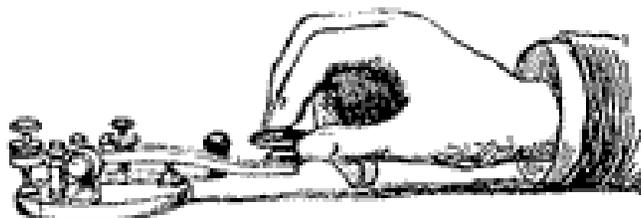
The slow scan TV software recommended is MMSSTV. This free software is available online, just Google MMSSTV for a wealth of information. However, any SSTV program can be used. Are you new to this mode of operation? Contact any of the net control stations for assistance getting started! Even if you don't have a slow scan TV setup yet, you're still welcome to check in to the net just to say hello or to ask for more information about this interesting mode.

Net Control Stations: John N8OBJ, Terry K8TJM, and Joe KC8RAN.

Wanted! Net Control Stations

We now have five Net Control Stations for the Thursday evening LEARA Club Net and three stations for the Saturday evening SSTV net. There's always room for more stations who would like to give it a try.

Any member of the Lake Erie Amateur Radio Association can be a net control operator for one or all of the nets held on one of the club's repeaters. Never tried it you say? No problem. Now would be a really good time to start. It's as easy as getting in touch with me and we'll schedule you into the rotation. If you should have any questions or requests for assistance to get started, just contact me at one of our club meetings or by using any of my contact information in the membership directory or send me an email (KD8ACO at arrl dot net or KD8ACO at leara dot org). Hope to talk with you "on the air" soon! ! -AR-

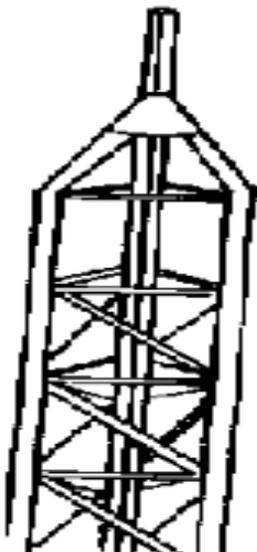


Hamfest Listing

19 Apr 2009 55th Annual Hamfest, Electronics, & Computer Show
Cuyahoga Falls Amateur Radio Club
<http://www.cfarc.org/hamfest2009.html>
 Talk-In: 147.27
 Contact: Ted Sarah, W8TTS
 239 Bermont Avenue
 Munroe Falls, OH 44262
 Phone: 330-688-2013
 Email: w8tts@w8tts.com
 Cuyahoga Falls, OH
 Emidio & Sons Party Center
 48 East Bath Road

15-17 May 2009 ARRL National Convention (Dayton Hamvention)
 Dayton ARA
<http://www.hamvention.org>
 Talk-In: 146.940
 Contact: Mike Kalter, W8CI
 Phone: 937-776-7898
 Email: w8ci@arrl.net

30 May 2009 Atlantic Division Convention (75th Rochester Hamfest)
 Rochester Amateur Radio Assn
 —New Management & Venue!—
<http://www.rochesterham.org>
 Talk-In: 146.88 (PL 110.9)
 Contact: Len Crellin, KC2PCD
 c/o RARA
 PO Box 93333
 Rochester, NY 14692
 Phone: 585-671-2424
 Email: kc2pcd@rochester.rr.com
 Rochester, NY
 Barnard Carnival Grounds
 380 Maiden Lane



Volunteer Exam Dates and Locations

(from the ARRL website)

04-Apr-2009
 Sponsor: LAKE COUNTY ARA
 Time: 12 NOON (Walk-ins allowed)
 Contact: SCOTT FARNHAM
 (440)256-0320
 Email: SCOTTFARNHAM@ROADRUNNER.COM
 VEC: ARRL/VEC
 Location: KIRTLAND LIBRARY
 9267 CHILLICOTHE RD
 ROUTE 306
 1.7 MI S OF I-90
 KIRTLAND, OH 44094

11-Apr-2009
 Sponsor: SUMMIT CO AMERICAN RED CROSS
 Time: 12 NOON (Walk-ins allowed)
 Contact: BRUCE M FERRY
 (330)929-2766
 VEC: ARRL/VEC
 Location: AMERICAN RED CROSS
 501 W MARKET ST
[HTTP://WWW.AK8B.US/VE](http://WWW.AK8B.US/VE)
 AKRON, OH 44303

19-Apr-2009
 Sponsor: NOTACON VE TEAM
 Time: 9:00AM (Walk-ins allowed)
 Contact: DENNIS R BOONE
 (517)202-5611
 VEC: ARRL/VEC
 Location: WYNDHAM CLEVELAND AT PLAYHOSUE SQUARE
 1260 EUCLID AVE
 ROOM TO BE DETERMINED
 LOOK FOR SIGNS
 CLEVELAND, OH 44114

25-Apr-2009
 Sponsor: WRECS
 Time: 9:00 AM (Walk-ins allowed)
 Contact: ROBERT C GAUSS
 (330)562-3328
 Email: N8ZB@YAHOO.COM
 VEC: ARRL/VEC

Location: BENTLEYVILLE VIL-LAGE HALL/CHAGRIN FALLS
 6253 CHAGRIN RIVER RD
 CORNER SOLON RD & RIVER RD
 BASEMENT
 BENTLEYVILLE, OH 44022

10-May-2009
 Sponsor: CUYAHOGA ARS
 Time: 9:00 AM (Walk-ins allowed)
 Contact: GARY S DEWEY
 (216)642-8705
 Email: GDEWEY@EN.COM
 VEC: ARRL/VEC
 Location: TOWN HALL
 6652 BRECKSVILLE RD
 STATE ROUTE 21
 INDEPENDENCE, OH 44131

03-Jun-2009
 Sponsor: CUYAHOGA FALLS ARC
 Time: 7:00 PM (Walk-ins allowed)
 Contact: BRUCE M FERRY
 (330)929-2766
 VEC: ARRL/VEC
 Location: STOW-MUNROE FALLS PUBLIC LIBRARY
 3512 DARROW RD
[HTTP://WWW.AK8B.US/VE](http://WWW.AK8B.US/VE)
 STOW, OH 44224

06-Jun-2009
 Sponsor: LAKE COUNTY ARA
 Time: 12 NOON (Walk-ins allowed)
 Contact: SCOTT FARNHAM
 (440)256-0320
 Email: SCOTTFARNHAM@ROADRUNNER.COM
 VEC: ARRL/VEC
 Location: KIRTLAND LIBRARY
 9267 CHILLICOTHE RD
 ROUTE 306
 1.7 MI S OF I-90
 KIRTLAND, OH 44094

11-Jul-2009
 Sponsor: SUMMIT CO AMERICAN RED CROSS
 Time: 12 NOON (Walk-ins allowed)
 Contact: BRUCE M FERRY
 (330)929-2766





LEARA Meeting
Pix
*You miss one
meeting...
You miss a Lot!*



U.S. Coast Guard to Discontinue LORAN-C Stations

(from the ARRL website)

Last month, the US Coast Guard announced that due to economic conditions, they would be closing down the 24 LORAN-C (Long Range Aid to Navigation) stations operated under the auspices of the USCG. LORAN stations provide navigation, location and timing services for both civil and military air, land and marine users. According to the USCG, LORAN-C is approved as an en route supplemental air navigation system for both Instrument Flight Rule (IFR) and Visual Flight Rule (VFR) operations. The LORAN-C system serves the 48 continental states, their coastal areas and parts of Alaska.

On February 26, 2009, the Office of Management and Budget (OMB) publicly announced the President's Fiscal Year 2010 Budget. In the section for the Department of Homeland Security (DHS), the budget "supports the termination of

outdated systems such as the terrestrial-based, long-range ra-



dionavigation (LORAN-C) operated by the US Coast Guard, resulting in an offset of \$36 million in 2010 and \$190 million over five years." The USCG, once a part of the US Department of Transportation, is now under the direction of DHS.

LORAN-A stations were developed beginning in World War II, and signals were transmitted on frequencies in and around our present-day 160 meter band. LORAN-A was responsible for reduced amateur radio operations, including frequency and power limitations, on 160 meters in the United States. In 1979, the Coast Guard phased out the LORAN-A stations; they were replaced by LORAN-C stations. The newer stations operated on 100 kHz, enabling the restrictions on 160 meters due to LORAN functions, to be dropped.

According to the Coast Guard, the nation's oldest continuous sea-going service will continue to operate the current LORAN-C system through the end of fiscal year 2009; it is in the process of preparing detailed plans for implementing the fiscal year 2010 budget. According to USCG Vice Commandant and Chief Operating Officer Vice Admiral V. S. Crea, further details of the LORAN-C termination plan will be available upon the submission and approval by Congress of the President's full budget. -AR-

LEARA — The Lake Erie Amateur Radio Association -Serving Greater Cleveland Since 1964-

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- IRLP | • 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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