



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

Niljon Antennas

Presented by Jack Nilsson, PhD, N8NDL

Tuesday, January 28, 2003

Please make plans to join us on Tuesday, January 28th, 2003 for what promises to be an interesting and very informative meeting with Mr. Jack Nilsson, PhD, N8NDL, and president of Niljon Antennas.

Like many, I'm sure you have seen the unique looking antenna assembly with its three vertical radiating

elements that stand off of the mount in an upside-down cone shaped configuration. On Tuesday, January 28th, 2003 we will all have the opportunity to find out exactly how this one of a kind antenna really works, and what the inspiration behind its design was.

(Continued on page 3)

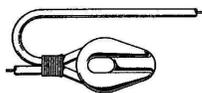


LEARA's January Feature

Plumbing In The Attic — A Loopy Antenna

by Mike DiTurno, KC8OWL

It seems more and more common these days – amateur radio operators are faced with the limitations of housing restrictions and other covenants that severely limit or prohibit any outside antenna from being put up to work the amateur bands. Though not ideal, antennas for the higher frequency bands such as 2 m and 70 cm can be rather effective in an attic installation simply because the



amount of space required to mount a 2 m ground plane antenna is not that substantial. Where things get much trickier is in the world below 30 MHz.

What follows is a summary of how I have managed to get on HF in my antenna-restricted development. Though not a textbook-perfect installation, the

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January, 2003

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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 . . .

Well another year is in the books. 2002 is history and here comes 2003! Before I go too far, I think it's important to thank the outgoing trustees Patt McClain N8RKP, and John Bush KG8YZ for their service to LEARA over the past three years. And to welcome the incoming trustees Sara KC8KSU, and Mike KC8OWL. I won't bore you with a long list of who the new officers are, after all you can look at the inside front page of the newsletter and see them for yourselves. Bill KA8VIT is our new club secretary for 2003, and Mike KC8OWL is our new program chairman. Look for some interesting programs this year. Stay Tuned for further details.



Here's hoping that Santa-Ham left new gear under your tree! Nothing says Merry Christmas like a new piece of radio (or computer) equipment.

With this being the season for our uncertain and potentially hazardous winter weather, I'd like to remind all of you to keep an ear on the repeaters, listening for motorists who may need help. Not that I would ask any of you to venture out into a snowstorm, but if a call for help does pop up on one of the repeaters, be available to summon assistance for a stranded motorist if needed. Even with the proliferation of cell phones, calls still come in on the repeaters with requests for help. And sometimes it's from someone we all know.

Speaking of people we all know, or knew, two former LEARA members were in town over the holidays. Sean Douglas, K8TOR and Jeff Baer, WT4K were both in town over the holidays. Sean and Jeff were both key players in our local Skywarn program while they were here. Sean worked out at the NWS office a lot, and Jeff ran the nets on '76, as well as being the coordinator for Cuyahoga County Skywarn. Anyways, I got phone calls from each, announcing their visit. But unfortunately (due to a nasty stomach virus that spent the holidays wandering through our house) I didn't get a chance to see them in person. I don't know if Sean got on the air while he was in town, but Jeff did.

Hope to see all of you at the January meeting on the 27th at Dimitri's!

73 de N8AUC

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.

Association News

January Meeting (cont'd)

(Continued from page 1)

The meeting will be held at Dimitri's Restaurant, 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 PM. 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 \$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 **440-248-0031** or leave a message on the LEARA information and voice mail line at **440-942-0154**.

The Holiday Meeting Report

You just knew that Fred couldn't win anything, but Flossie would... and did! Not the big prize, but she won the \$100 AES gift certificate. Looks like Fred's gonna get a nice Christmas present this year!

She is one of the luckiest people I have ever seen!!!

Anyways, it seemed that everyone had a good time. The food was good, except for a mishap with the oven roasted potatoes. Apparently they didn't get taken out of the oven in time and became oven-zorched potatoes. Mashed potatoes and gravy were substituted, which worked out OK. Especially since they ended up discounting the price of the affected dinners for us. And from what I heard, the chicken part of the ribs and chicken wasn't the best. I had the prime rib, which was VERY good. Comments I received from others who had the prime rib indicated that Dimitri's did a good job on them across the board.

73 de Eric, N8AUC

Holiday Door Prize Winners

Free Dinner: **Tom Kimball, KA8BZB**



One year membership in the ARRL:

Ed Corcoran, KC8ONS

Jeff Garvas, N8YNR

Raffle Tickets for the Browns vs. Colts football game.



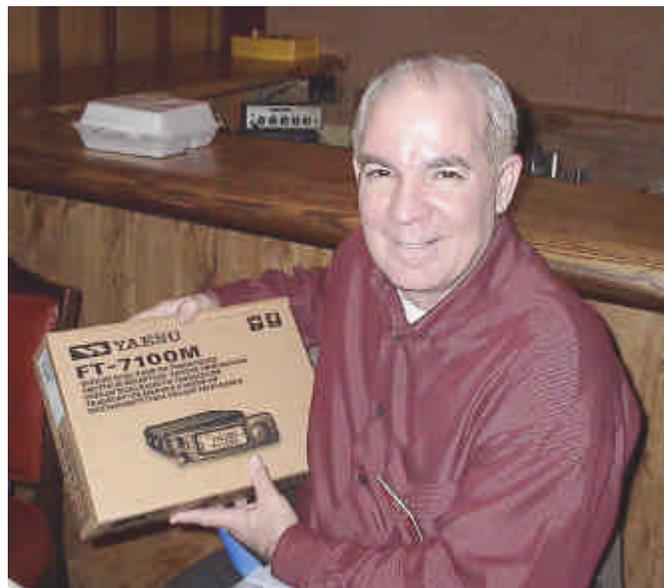
John Gibbons, N8OBJ

\$100 GIFT CERTIFICATE redeemable at Amateur Electronic Supply:

Flossie Collins



Grand Prize, a new Yaesu FT-7100 dual-band mobile radio.



Grand Prize winner, Ed Zorn, KD8ZK

Association News

Bob Winston, QCWA Ham of the Year

Leara Trustee, Bob Winston, W2THU, was selected by the Cleveland Chapter of the Quarter Century Wireless Association as its 2002 Ham of the Year. According to Jack Goldfarb, W8WGO, a member of the selection committee, Bob was chosen for his years of work promoting amateur radio locally and statewide. Some of the activities taken into consideration included Bob's longtime association with LEARA as a Trustee, past president, vice-president and secretary, his position as the assistant section manager for northeast Ohio in the ARRL, and his legal representation of many hams in their tower cases.

Also noted were W2THU's work on the Cleveland Bicentennial in 1996 which resulted in the establishment of permanent ham radio stations at the Rain Forest in the Cleveland Zoo and on the Museum ship Mather, and his countless talks to ham radio clubs and hamfests on the subject of ham radio and the law. Presently, Bob is the statewide coordinator for amateur radio participation in this year's Ohio Bicentennial.



Bob, who practices law in downtown Cleveland, was surprised and overwhelmed when he received this honor at the Chapter One awards ceremony luncheon in October, 2002.

Welcome to the Club

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

New Members

Jerry Steele, K8CMI
Jack Heinz, KC5RCB

Returning Members

Cathy Carter, K8VTD
Jeff Hadley, K8ZAK

New Call Sign

Ed Spisak, formerly KC8PET, is now W8EDS

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

Looking Forward

January 28 — Niljon Antennas, presented by Jack Nilsson, PhD, N8NDL.

February 25 — Ohio Area Repeater Council, presented by Cliff Bade, W8CJB.

March 8 — Trustees' meeting, see info on page 2.

March 25 — Skywarn spotter training, presented by Gary Garnet of the NWS.

Anyone with program ideas or suggestions is urged to contact Mike DiTurno, KC8OWL, at 216-898-1891 or by e-mail to kc8owl@yahoo.com.

PHONE: (330) 225-7373
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RETAIL STORE HOURS [1]
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CLOSED TUES & THURS
SAT: 10AM-6PM
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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

LEARA's January Feature

(Continued from page 1)

contacts I have in my logbook will support the fact that it definitely works.

I have tried various configurations and iterations of attic antennas, from a slinky dipole to a traditional dipole, and everything in between but being the type of person I am, I was always looking for something better or more effective for my particular environment with my overall goal being to get as much wire as I could into the 30 foot long attic. Then it hit me – what about a loop antenna? I thought this would be a great way to get a lot of wire into a limited space, but I did not want to just lay 80 – 100 feet of wire around the perimeter of the attic with no protection for it, or the blown-in insulation it would lay on top of.

Then it hit me ... again. Why not build a PVC pipe frame for the loop and then hang the entire structure from the highest point of the roof peak inside the attic. By building a frame out of 1-½ inch PVC I could encapsulate the loop inside the pipe and hang it in a vertical configuration so my radiated signal would be more focused toward the horizon while also offering some protection to the wire.

Figure 1 is a rough diagram of the 15 ft. by 4 ft. PVC frame I used to house my loop antenna. Figure 2 is a list of the parts used to build the frame. The 5 ft. sections of PVC were made from 10 ft. sections by cutting them in half, primarily to make it easier to work with in the attic. The two 4 ft. sections used to make the sides were, again, cut from a single 10 ft. piece of PVC. To get everything together the way I wanted it though, I would have to assemble the structure in the attic and then feed the 80 ft. length of #14 awg wire through it – I didn't expect it to be as easy it sounded.

Once I was in the attic with all of the materials I laid out the pieces in the general area they were going to be once everything was put together and began to feed the wire through the tee connector in the lower left corner of the

frame, and then into each of the individual sections. Before too long I had the first loop of wire through each of the pieces, but it looked like a skeleton with none of the bones tied together. With the second loop of wire I would have to pull everything as tight as I could and then secure the pieces together as I finished pulling the second turn through the given section. To hold the pieces together I decided to use non-metallic duct tape rather than pipe cement, primarily because it was easier to work with and would still secure everything to the level necessary in an attic.

One of the benefits of using a larger gauge wire along with a wide pipe was the fact that I could push the wire through each pipe section fairly easily and then pull it tight without worrying that I would snap the wire and have to start all over again. Taking each section one at a time I was able to complete two loops using about 80 ft. of wire. I used the tee connector in the lower left corner of the frame as the entry and exit point for the loop (feed point). With the frame complete I was able to hang it from a series of hooks I installed on the 2x4's along the top of the roof line using nylon rope.

To finish it off I connected each of the leads of the finished loop to my SGC-237 Smart Tuner, also mounted in the attic, and ran the coax and control leads down to the shack. From there, contacts with LU1, P4, VE9, and CO8 prefixes on 10 meters were a snap, using only 50 watts.

Like anything else in the world, the number of ways to get from point A to point B is limited only by imagination. I wanted to share this particular idea with the hopes of perhaps helping someone who may be in a similar situation. I also invite anyone who has had to improvise a 'stealth' antenna because of housing restrictions to share your ideas. Feel free to contact me with any questions regarding this project.

73 de KC8OWL
 kc8owl@yahoo.com

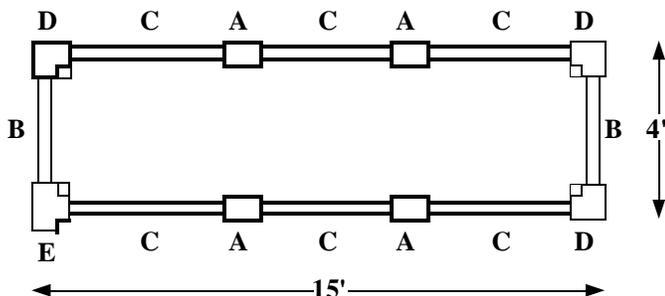


Figure 1

Letter	Quantity	Description
A	4	1-½" PVC Coupler
B	2	4' section of 1-½" PVC
C	6	5' section of 1-½" PVC
D	3	1-½" PVC 90° elbow
E	1	1-½" PVC Tee connector

Figure 2

Area Ham News

Public Service

2002 Shaker Heights Pumpkin Patrol

by Joe Swartz N8IPC

Back in 1988, three Shaker Heights policemen, Bill WA8VMN, Rollo N8JNZ, and Bob KB8CQX, suggested that hams could supply extra eyes and ears for the pros on Halloween night. The experiment was successful and has become an ongoing event. For the 15th year, LEARA members participated in the Shaker Heights Pumpkin Patrol. We put 14 hams in 8 cars on the streets of Shaker driving very slowly; watching the ghosts, goblins, Frodos, and Harry Potters going house to house collecting a copious supply of candy; and reporting potential problems. Happily, the weather was great, the candy was plentiful, and the problems were few.

The few problems that were observed were reported to Bob KB8CQX, who relayed the information to the pros for disposition. It was fun to listen on the scanner. Riding with Bob was his father, Andy W8UDG. The other hams who participated were Mike K8EHP, Rich N8RB, Tom KA8BZB, Don N8DJG, Jeff N8YNR, Travis KB8QIE, Paul KC8RWB, Jodie KC8ULI, Bob W2THU, Matt KC8NZJ, Joanne KB8TGX, and Joe N8IPC.



Time to Renew

Please check the printed message above your name on this month's mailing label. It will indicate your dues status as recorded in the LEARA Database. If it's incorrect, please contact Marv Grossman, W8AZO at 440-248-0031 or e-mail at MarvG@apk.net.

Those of you who receive your newsletter via e-mail can contact Marv in one of the above ways to verify your dues status. After the March 2003 issue, reminders will be mailed to members, including those who get newsletters electronically, whose dues are not paid by that time. Those whose dues are not paid by the April issue will no longer receive a newsletter.

NOARS Winterfest

by Virden Clark Beckman, N8PZD, electro7@apk.net

The 2003 NOARS WINTERFEST to be held February 2nd, 2003, at Gargus Catering Hall is at 1965 North Ridge Road, Lorain, Ohio North Ridge Road is also known as RT 254 or Detroit Road.

Admission cost is \$5.00 including a *FREE* pancake/sausage and coffee breakfast until 11:00 AM. 6 Ft. Tables still cost \$10.00 each - all workers will need admission tickets. We will open the doors to the public at 8:00 AM until 1:00 PM. Vendors may arrive at 6:00 AM to set-up. Contact Tom Porter 440-930-9115 or Clark Beckman 216-671-8795 for reservations. Mobile Check-ins and directions will be provided on NOARS repeaters 146.70 & 444.800

No RF emitting prize will be awarded to a non-ham. Instead, the equivalent cash amount of the prize won will be awarded at club cost of the prize won.

We look forward to seeing you there; everyone attending has a great time visiting vendor display booths to take advantage of special bargains on new equipment and locating used items that have been out of production, being able to share the visit with old friends, introduce them to new friends and enjoy the fellowship with breakfast.

*** The 1-dollar new membership offer will end at 12:00 at this event. *** You may bring in your form printed from the NOARS membership application page along with 1 U.S. Dollar and be entitled to full membership until December 31, 2003. You will receive the NOARS Log via e-mail transmission in place of the printed newsletter. This is an outstanding offer, don't let it slip away.

Directions from the East - Take I-90 or the Ohio turnpike west to Rt. 57 exit. Proceed North on Rt. 57 under the railroad bridge to the first main crossroad, turn left to the west. Get into the right hand or curb lane, the hall is about one-half mile west of Rt. 57. The driveway is 200 feet west of Clinton Road, just East of Marco's Pizza shop.

Visit Winterfest on the web at
<http://www.apk.net/noars/winterfe.htm>

Remember... Check your expiration date on the mailing label. If it shows your membership as expired, send in your renewal...

Today!! (and check your ARRL status while you are at it.)

Area Ham News

ARRL Changing of the Guard

Fellow Great Lakes Division ARRL Member,

As of Noon on January 1st I will fade into the long list of ARRL members who have honorably served as Directors and Vice Directors of our fine organization.

As you will discover, my successor, Director Jim Weaver K8JE, is a worthy and qualified gentleman who I believe will represent the Great Lakes Division, Amateur Radio Service, and ARRL well. We have been friends for years. I'm sure you will enjoy meeting and working with Jim throughout his coming 3-year term. Vice Director Dick Mondro, W8FQT, is also highly qualified, and you will find him to be a valuable resource to the Division, as he has been to me during my time as Director.

I will be continuing to serve the Division as Chair of the GL Division Convention (9/6-7/2003 in Findlay, Ohio), and as Chair of the GL Division Awards Committee. I will also continue to maintain the Division web page in the near future. More information on these will be available through <http://greatlakes.arrl.org>.

I wish each of you a safe and fun New Year's Eve, and prosperous 2003.

73, Gary L. Johnston, KI4LA, ki4la@arrl.org
Visit Our Division Web Site <http://greatlakes.arrl.org>

Mansfield Hamfest Banquet

Steve Mendelsohn, W2ML, vice director of the ARRL Hudson Division, who has mountains of stories about ABC Monday Night Football will be the featured speaker at the 3rd annual Mansfield (Ohio) Hamfest Banquet next February. Steve, of Dumont, New Jersey, is technical director for ABC-TV network whose primary assignment has been the Monday Night Football program. An exceptionally entertaining speaker, Steve twice has served as Banquet Speaker for Great Lakes Division conventions in Cincinnati.

The Banquet will be held at Sons of Herman hall in downtown Mansfield Saturday, February 8, 2003 the night before the Sunday Mansfield Hamfest. It is co-sponsored by IARC, Inc. (Bill Martin, N8TQ, president) and MASER Inc. (John Young, N8JY, president). Both Mansfield ham radio organizations also co-sponsor the Mansfield Hamfest, one of the four most popular in the Ohio Section.

More details as to tickets and other events will be announced later.

Mapmaker retires & wins award

For the past 25 years Jim Gifreda, W8MAP, has put together the Ohio 2 Meter Repeater Map which has been published at various times in the Dayton Hamvention Program, Ohio Area Repeater Council publications, as well as Ohio ham radio newsletters. Late last year, Jim decided that the time had come to pass this job on to someone who "may have fresh ideas and energy." Jim turned the files over to Mike Cotts, KB8SSH, who has agreed to carry on producing the map.

What makes Jim's service to the Ohio Section Ham Radio community so special is that he saw the need for a map before anyone else and has filled that need to perfection. Beside the obvious need to list geographically the two-meter repeaters in this state, Jim's efforts made a major and ongoing contribution toward promoting unity within Ohio and its ham radio operators. The value of that effort cannot be measured. For those reasons, Jim's name was added to the list of receivers of the Allan Severson, AB8P, Memorial Award.

The current creator of the map, Mike Cotts, KB8SSH, was kind enough to grant permission for publication of the map in the LEARA newsletter. Therefore, the latest version of the Ohio 2 Meter Repeater Map appears on the next page.

Ham Radio Classes Offered

The Cuyahoga Amateur Radio Society is now registering for Technician, General and CODE Amateur Radio Classes. All classes will be conducted at the Independence Civic Center, 6363 Selig Dr., Independence, OH in the Willow Room.

The 8 Week Technician License course runs each Wednesday, January 22 to March 12, 2003 at 6:30 p.m. The registration fee \$25.00 and includes all class materials.

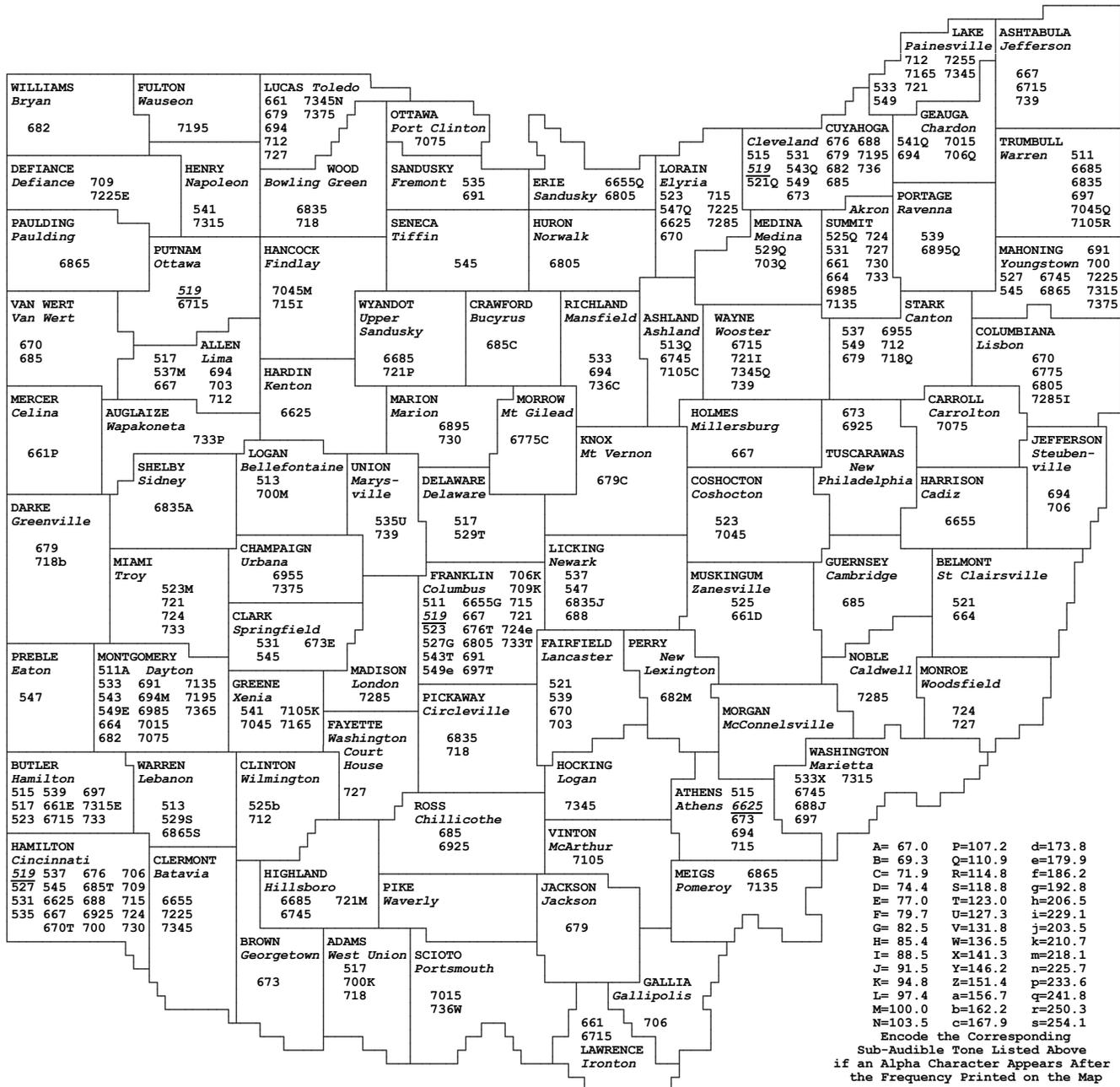
The 4 Week General License course runs each Thursday, February 13 to March 6, 2003 at 6:30 p.m. The registration fee \$20.00 and includes all class materials.

The 6 Week CODE Class runs each Wednesday, March 19 to April 23 at 6:30 p.m. The registration fee is \$15.00 and includes all class materials.

To register for any class call 216-642-8705, Gary, NI8Z, or complete the form at www.cars.org

OHIO 2 METER REPEATER MAP

Prepared by KB8SSH since 2002



Additions or corrections to kb8ssh@qsl.net.

Your RX frequency is shown. All RX frequencies below 147MHz use 600KHz minus offset for TX. All RX frequencies at or above 147MHz use a 600KHz plus offset for TX. EXAMPLE: 676T in Franklin county indicates 146.760MHz RX and 146.160MHz TX with a sub-audible tone of 123.0Hz.

Wide area FARA linked repeaters are in *bold italics* in these counties: Hamilton, Putnam, Cuyahoga, Franklin, Athens.

Map is available for viewing and printing in .pdf format at <http://www.qsl.net/kb8ssh/map.html>

11/23/02

Hamfest Listing

To update or add to this list, please contact Mike DiTurno, KC8OWL, at 216-898-1891 or kc8owl@yahoo.com

February

- 2 NOARS Winterfest, Northern Ohio ARS**
<http://www.apk.net/noars/winterfe.htm>
 Location: Gargus Hall, 1965 Ridge Rd., Lorain, OH
 admission still \$5 and includes FREE pancake/sausage
 breakfast until 11 AM, get 'em while they are hot!

- 9 Mansfield Mid*Winter Hamfest, Inter-City ARC & MASER (Banquet on 2-9-03, at 6:00 PM)**
<http://www.maser.org>
 Location: Fairgrounds, 750 N Home Rd, Mansfield, OH
 Phone: 419-589-2415 or 419-522-9893
 Email: deanwrasse@yahoo.com

- 23 49th Annual Hamfest, Cuyahoga Falls ARC**
<http://www.cfarc.org>
 Location: Emidio & Sons, 48 E Bath Rd, Cuy Falls, OH
 Phone: 330-688-2013
 Email: w8tts@arrl.net

March

- 16 Toledo Mobile Radio Association, Maumee, OH.**
<http://www.tmrahamradio.org/hamfest.htm>
 Location: Lucas County Recreation Center, 2901 Key
 Street, Maumee, OH

- 23 25th Annual Lake County Hamfest, LCARA**
<http://hamnet.org/lcara>
 Location: Madison High School, Madison, OH
 Phone: 440-209-8953 (Leave Message)
 Email: roxanne@lcara.org

Volunteer Exam Dates and Locations

To update or add to this list, please contact Mike DiTurno, KC8OWL, at 216-898-1891 or kc8owl@yahoo.com

<u>Date</u>	<u>Location</u>	<u>Date</u>	<u>Location</u>
1/12	Independence	2/22	Canton
1/19	Elyria		
1/25	Bentleyville	3/8	Akron, Red Cross
		3/9	Independence
2/1	Wickliffe	3/16	Elyria
2/4	Akron, Pioneer AR	3/23	Lake Co. Hamfest
2/5	Cuyahoga Falls		(for contact info see
2/16	Elyria		Wickliffe, below)

Akron, Pioneer AR Fellowship - 2324 Manchester Rd, Akron, OH, 44314. Pre-registration preferred, check-in 6:30 PM, test at 7:00 PM, walk-ins allowed. **Contact:** Ronald D. Lieving, 330-724-5981.

Akron, Summit Co. American Red Cross - 501 W. Market St, Akron, OH, 44303. Testing at 3:00 PM, walk-ins allowed. **Contact:** Bruce M. Ferry, 330-929-2766, ak8b@arrl.net

Bentleyville - Bentleyville Town Hall, 6253 Chagrin River Rd, (corner of Solon Rd & River Rd) Bentleyville, OH 44022. Testing begins at 9:00 AM, walk-ins allowed. **Contact:** Raymond C. Dabkowski, 440-729-0110, w8rd@arrl.net

Canton - Stark Co. Sheriff Office/EOC, 4500 Atlantic Blvd. NE, Canton, OH 44705. Test at 9:00 AM, walk-ins allowed. **Contact:** Gary L. Kline, 330-837-2927, wc8w@raex.com

Cuyahoga Falls - 2015 3rd St, Cuyahoga Falls, OH 44221. Test at 7:00 PM, walk-ins allowed. **Contact:** Steven Greathouse, 330-724-2247.

Elyria - American Red Cross, 2929 West River Rd., Elyria, OH, 44035. Testing at 1:00 PM, park in rear and enter through back door, walk-ins allowed. **Contact:** Charles S. Hall, 216-433-3036, ve@w8hf.com, www.w8hf.com

Independence - Independence Town Hall, 6652 Brecks-ville Rd, Independence OH, 44131. Doors open 9:00 AM. Pre-registration is appreciated, walk-ins are welcome. **Contact:** Gary S. Dewey, 216-642-9705, gdewey@en.com

Wickliffe - Amateur Electronic Supply (AES), 28940 Euclid Avenue, Wickliffe, OH 44092. Testing at 12:00 PM, Walk-ins are welcome. **Contact:** Scott Farnham, 440-256-0320. Do NOT call the store for information on VE testing.

**** HAMFESTS** - Many hamfests provide VE testing. ******

INSTRUCTIONS FOR TEST CANDIDATES

For VE testing one must bring the original and copies of the current license and CSCE forms (if applicable), identification, and the exam fee. ARRL VEC's exam fees are \$10.00. Check with the contact person in advance for specific testing site requirements and any special test accommodations needed.

For Sale

Here is a partial list of stuff I wish to sell.

- Complete Drake HF station:
 - R4-A receiver
 - T4-X transmitter
 - MS-4 Power Supply
- Kenwood AT-200 tuner
- Heath phone patch
- 2 mikes
- Vibroplex ORIGINAL key
- 5BTV vertical antenna
- 100'+ cables
- Clegg 30 amp Power Supply
- Kenwood 2600A 2-meter HT



Also: 50 cameras, stereo components, watches, organ, and a houseful of furniture etc.
call Mike, WB8JSJ, at 216 641 6954 for info.

LEARA $\frac{3}{4}$ The Lake Erie Amateur Radio Association

VOICE REPEATERS:

53.230/R-
146.76/R-
146.88/R-
224.90/R-
444.40/R+
444.70/R+

- Highland Hills (136.5 Hz tone)
 - Highland Hills (Use 110.9 Hz tone for remote inputs in Lakewood, Newbury & Willoughby)
 - Lakewood (May require 110.9 Hz tone)
 - Lakewood (141.3 Hz tone)
 - Highland Hills (131.8 Hz tone)
 - Lakewood (131.8 Hz tone)
- (.76, .88, .90 and .70 offer emergency and member-only autopatch lines.)

PACKET NODES: **CLE1** 145.01 MHz: **CLE5** 145.05 MHz: **CLEV220** 223.70 MHz

These nodes are part of the Cleveland Net Cluster in K8EIW's backbone system.

GENERAL: **NBRY**
NBRYX
LEARA

- 145.07 MHz & 223.70 MHz (KA-NODE)
- 145.07 MHz \Leftrightarrow 223.70 MHz Gateway
- 145.07 MHz & 223.70 MHz PBBS

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