



# 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

## *Amateur Radio Emergency Service (ARES)*

**Presented by Joe Molter, N8IDA**

Tuesday, September 24, 2002



Please plan to join us at Dimitri's Restaurant for the September meeting. This month's guest will be Joe Molter, N8IDA, of the Cuyahoga Amateur Radio Emergency Service (ARES). At a time when there is concern about possible terrorist attacks, Joe will tell us how we can get involved and be prepared to help out in the event of a disaster, whether natural or man-made.

The meeting will be at Dimitri's Restaurant in the Mid-Town Shopping Center at Snow and Broadview Rds and is open to all. Dinner will be served at 6:30 PM and the program will start at 7:30 PM. **If you plan to eat, reservations are required!** Restaurant service is available only for those who purchase dinner. If you are attending the

meeting only, kindly purchase beverages at the bar and bring them to your table.

The dinner menu will consist of Steak, Broiled Boston Scrod, or Chicken Parmigiana for \$14.50. Also available is a vegetable and pasta dish for those who prefer a meatless dinner. The dinner includes a salad, main course, dessert, ice tea or coffee, and gratuity (please note, bar service and soft drinks are not included).

**RESERVATIONS ARE REQUIRED BY 11:00 AM OF THE MEETING DATE.** Please call in your reservation and your menu choice to Marv Grossman, W8AZO, at **440-248-0031** or leave a message on the LEARA information and voice mail line at **440-942-0154**.

### September, 2002

#### In This Issue

Officers/Trustees.....	2
de N8AUC.....	2
LEARA Info .....	2
Association News .....	3
I'm Baaaaack...	
August Door Prize Winners	
Antennas 103 Recap	
Net Control Needed.....	4
Nominations are Closed	
Looking Forward	
Let us know	
QSL from the ISS .....	5
Editorial .....	6
Give 440 to the Europeans?	
ARRL NEWS .....	7
70 cm Proposal	
Section News to Move	
Leadership Changes .....	8
Election Endorsement	
New Web Site	
Hamfest Listing.....	9
For Sale.....	9
VEC Testing .....	9

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<b>Editor:</b> Bryan A. Torok, N8OOF	
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## de N8AUC . . .



My how time flies when you're having fun! Can you believe it's September already? The kids are back in school (I have a HS Senior, a HS Freshman, and a kindergartner this year!) the weather is starting to cool off, and it'll be Cleveland Hamfest time pretty soon! Make sure you get to the Cleveland Hamfest. LEARA will have a club table, and we'll be running the talk-in station again this year - so plan to come out and say, "Hi!" The Cleveland Hamfest will be at the Berea Fairgrounds again this year, on Sunday, September 22. Be there or be square!



Last month's meeting was a good one! Hope YOU didn't miss it. Al, K8EUR did his road show on antennas. Now I studied this stuff in college, but nothing drives the message home like a nifty demonstration. And Al certainly delivered. Thanks to Al for a great program on antennas. If you missed it, oh well. You'll probably be the one who's got the lousy signal into the repeater. We'll know.

The great basement-remodeling project is 99% done. This includes a new ham shack for yours truly. Now I remember why I write software for a living instead of doing construction. But it really looks good, and is a big improvement over what it was.

LEARA has always had a good newsletter. In fact, I think it's a great newsletter. I was just informed that our newsletter won second place in ARRL Ohio Section newsletter contest. Bryan, N8OOF and Mike, KC8OWL have both done a great job with our newsletter, and it's nice to see them finally get some outside recognition for all the hard work they put in.

Speaking of ARRL, the Great Lakes division has a new web site. I've seen it and it's very nicely done. Make sure to check it out at <http://greatlakes.arrl.org>.

Trustee Elections are coming up. You will soon be getting your ballot materials in the mail. Make sure you remember to vote. This is how you get your say as to how the club is run. It really does matter who you elect to be trustees of the Association. And no matter what anyone else tells you, your vote does count and it is important. So watch your mailbox, cast your vote, and remember to mail in your ballots.

See you all at Dimitri's on the 24th!

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 MidTown 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 ~~ing~~, 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 MidTown Shopping Center). Meetings are open to all current members of LEARA.

# Association News

## Editor's Rant

*I'm Baaaaack...*

*de Bryan A. Torok, N8OOF*

I want to thank Mike, KC8OWL, for filling in as editor for the last five months while I was occupied with work-related studies. Mike did a fine job of holding down the fort in my absence. This is especially so considering he had to learn several software packages on the fly.

However, Mike is not gone completely. Mike and I are setting up a sharing arrangement where we will swap the editorship back and forth about every three months. Also, Mike will continue producing the reports from our monthly meetings.

As always, we encourage anyone who would like to contribute to the newsletter, either occasionally or on a regular basis. After all, this is your newsletter. I would particularly welcome someone who would gather and update the hamfest and VE exam info. Anyone who is interested in contributing in any manner should contact me via one of the methods listed on page 2.

## August Door Prize Winners

Free Dinner: **George Cox, W8PJN**



Pocket Reference Book:

**John C. Gibbons, N8OBJ**

ARRL FCC Rule Book:

**Mike DiTurno, KC8OWL**

Practical Packet Radio Book:

**John Wagner, W8JJW**



Black & Decker Snakelight Flashlight:  
**Gwynn Thomas, W8JHL**



AES Plastic Bag: **Bill Chaikin, KA8VIT**

## August Meeting

*Antennas 103 Recap*

*By Mike DiTurno, KC8OWL*

Those that had the opportunity to join us at the August meeting of the Lake Erie Amateur Radio Association were treated to yet another outstanding presentation and discussion regarding antennas and antenna theory by Al Dolgosh, K8EUR.

A few highlights from the presentation and ensuing discussion are provided below:

- The current that flows in an antenna is not equal at all points. This was made clear when Al keyed the transmitter of a 2m radio and moved a fluorescent light bulb up and down the length of the 5/8 wave 2m mobile antenna the radio was driving. The light was at its brightest intensity where the voltage along the radiator was at maximum (current flow was minimum and impedance was at maximum). Conversely, at points along the radiator where current flow was at maximum (voltage was minimum and impedance was minimum) the light was at its lowest intensity.
- A 1/4 wavelength antenna will typically radiate its energy upwards at approximately 45 degrees from horizontal. This is advantageous in downtown areas or areas where the terrain is somewhat hilly in nature. A 5/8-wavelength antenna will focus its energy in more of a horizontal pattern towards the horizon. This is advantageous in flat terrains. Keep in mind that both antennas will radiate the same amount on energy; the difference is the direction the energy is radiated in.
- When reviewing an antenna's gain characteristics, be sure to note what the gain is in reference to. Some manufacturers state antenna gain in dBi (decibels with reference to an isotropic radiator) and others state gain with reference to dBd (decibels with reference to a dipole). Consistency is key when comparing antenna performance; always know what the gain measurements are in reference to.

Check out the newsletter in color at  
[www.leara.org](http://www.leara.org)  
Follow the Newsletters link on the side of the page

# Association News

## Net Control Needed

*By Mike DiTurno, KC8OWL*

The time has come to pass the reins as the net control operator for the Lake Erie Amateur Radio Association's Thursday night club net (8:00 PM on the 146.760 repeater). Because of time constraints and other personal commitments, I will not be able to continue hosting the net on a regular basis and would like to open it up for someone else to carry forward.

The new net control operator or operators should be ready to take over the net on or before Thursday, October 3<sup>rd</sup>, 2002 – the last net I will be prepared to host will be on Thursday, October 24<sup>th</sup>, 2002.

As net control, one will have the opportunity to develop critical traffic handling skills while under pressure from multiple stations. These skills will be of tremendous value for things like public service events, SkyWarn activities, natural or man-made disasters, etc.

Please feel free to contact me with questions or to volunteer. I will be glad to work with anyone in transitioning the responsibilities.

Thanks and 73  
de KC8OWL  
kc8owl@yahoo.com

## Looking Forward

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

**September 24** - Amateur Radio Emergency Service (ARES) presented by Joe Molter, N8IDA .

**October 29** - Short wave and Utility Monitoring by George Zeller and Annual Elections.

**November 9** — Trustees' Meeting  
See page two for details.

**November 26** — Holiday Social

Anyone with program ideas or suggestions is urged to contact Bill Chaikin, KA8VIT, at 216691-1038 or by e-mail at [KA8VIT@ix.netcom.com](mailto:KA8VIT@ix.netcom.com)

## Nominations are Closed

It's "that" time of the year again... Time to prepare for LEARA's annual election of one-third of its Board of Trustees. Nominations were officially closed at the close of the August meeting.

### This year's incumbents are:

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

### This year's new candidates are:

Mike DiTurno, KC8OWL; Sara Cechner, KC8KSU, and John Radney Sr., KC8FOC.

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. **The deadline for submitting bio/statements is the close of the September meeting.** Submit bio/statements to one of the following Election Committee members:

Bill, KA8VIT,  
Bryan, N8OOF,  
Marv, W8AZO

[ka8vit@ix.netcom.com](mailto:ka8vit@ix.netcom.com)  
[b.torok@en.com](mailto:b.torok@en.com)  
[marvg@apk.net](mailto:marvg@apk.net)

## Let Us Know

Have you recently upgraded or received a vanity call sign? Did you finally get that last state for your WAS award or finally received your DXCC? Let us know. Please share your amateur radio related awards or special recognitions by sending a note to [editor@leara.org](mailto:editor@leara.org)

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## QSL from the ISS

By Bill Chaikin, KA8VIT

This is a follow up to my article, *Working the International Space Station* which appeared in the August 2002, issue of The Spirit of '76 and '88, (If you haven't read that article, you still can on the LEARA web site at <http://www.leara.org> or you can read it on my web site at <http://www.qsl.net/ka8vit/iss/iss.htm>).

A few weeks after penning that article I was able to make voice contact with Cosmonaut Valeri Korzun, RZ3FK, the ISS Expedition Five Commander from the car, using an HT, seven watts and a quarter wave mag mount on the roof.

It was a warm, sunny, summer, Friday afternoon. I had just pulled into a friend's driveway when the alarm on my watch went off. I had set it earlier that morning after running ISS orbital pass predications for the weekend and seeing that there was going to be a pass that afternoon with a max elevation of eighty (80) degrees, meaning it would pass almost directly overhead. Not only would it pass almost overhead, it would fall near the beginning of the crew's usual sleep time which meant there would be a better chance of actually catching them on the air.

I parked the car and flipped the HT over to 145.805 MHz and started to monitor fully expecting to hear the on-board packet digipeater at the start of the pass.

A minute or so later the radio started to quiet up a little bit and I thought I heard a voice or voices. (When monitoring the ISS I have found it easier to open the squelch all the way and as the receiver starts to capture a signal the static gets quieter letting me know I am hearing something). A few moments later the voice was S9 and better and had a thick Russian accent and was clearly working stations and identifying as RS0ISS.

I listened for a few more moments but because the nature of split frequency operation I could not tell when other stations may have been transmitting. I tried calling RS0ISS a few times but whenever I un-keyed the voice was in the middle of saying something apparently to someone else. I listened a few more moments and then tried calling RS0ISS again and repeated the suffix of my call sign three and four times phonetically, (a trick I have learned participating in many Field Day operations). I did this three or four more times over the next minute sometimes just repeating the last two letters of my call phonetically... *"RS0ISS this is*

*Kilo Alpha Eight Victor India Tango, India Tango, India Tango, India Tango, over."*

*"India Tango, nice to hear you. Good Evening, RS0ISS."* I was dumb struck! Did he just answer me? It took me a second or two to regain my composure. I tried to reply back to him but by then he had already worked two other stations. I listened to the rest of the pass, which lasted about another seven minutes. He worked all the



The International Space Station is a common project of 16 nations: Belgium, Brazil, Canada, Denmark, France, Germany, Italy, Japan, Netherlands, Norway, Russia, Spain, Sweden, Switzerland, United Kingdom, United States. When fully constructed the Space Station will consist of approximately 70 separate major components and hundreds of minor ones that are due to be launched into space by the year 2004. Some of the major components are:

- **Zarya, also called Functional Cargo Block (FCB—acronym from the Russian term)**—includes the energy block, contingency fuel storage, propulsion and multiple docking points.
- **Zvezda, also called Russian Service Module**—provides life support and utilities, thrusters and habitation functions (toilets and hygiene facilities).
- **Canadian Mobile Servicing System**—includes a 55-foot robot arm with 125-ton payload capability, as well as a mobile transporter, which can be positioned along the truss for robotic assembly and maintenance operations.
- **US, European and Japanese Laboratories**—together provide 33 International Standard Payload Racks with additional science space available in the two Russian Research Modules.
- **The Amateur Radio station** is frequently used to allow the ISS crew to talk with school children and fellow amateurs around the world.

From	To	Day	Month	Year	UTC	SBZ	Mode
<input type="checkbox"/> NA1SS <input checked="" type="checkbox"/> RS0ISS	KA8VIT	09	08	2002	2053	14449	<input type="checkbox"/> Packet <input type="checkbox"/> SSTV <input type="checkbox"/> SSB

other stations in a similar manner. Short and sweet. I could just imagine the pile-up on his end.

I QSLed to ARISS hoping he had copied my call correctly and that it had made it into the log. A few weeks later I was rewarded when I received the QSL card pictured above confirming my contact!

73 de KA8VIT

# Editorial

## *Should We Give 440 to the Europeans?*

*Don Byrer, kj5kb@hotmail.com*

Dear friends,

Apologies to all whom I do not keep regular contact with; I feel this topic is very important and requires your attention. Please read on:

I am Don Byrer, KJ5KB and also UK call G0POH. I currently work for the FAA in Cleveland, Ohio maintaining Radar, Data and Comm equipment.

Please read my excerpt from the ARRL letter below...

[Editor's Note: The entire article appears on page 7.]

"An amateur from Virginia, KB4PGC, has petitioned the FCC to allow "visiting/transient/tourist non-amateur non-United States resident foreign nationals" to operate UNLICENSED within our 70 cm ham band."

WHAT????

PMR446, the European version of our unlicensed FRS radios, operate within 446.0 to 446.1 MHz. While it would be totally legal for a US ham to use a PMR446 radio (as a ham rig) in the US, it is NOT legal for an unlicensed person to do so (no matter what their nationality). FYI, the UK 70 cm amateur band is from 430-440, not 420-450 as it is in the US; 446 is outside the UK ham bands.

This petition would allow transient 'non-US residents' to operate PMR446 within the US (with no callsign, no ID, etc).

There are many problems I see with this proposal:

- ◆ 446.0-446.1 is used in many areas for repeater links as well as simplex. How would you like your local Skywarn or public service operation to be interrupted by "John Smith" on his PMR446 HT?
- ◆ If a "visiting/transient/tourist non-amateur non-United States resident foreign national" can use PMR446, what's to stop any US resident from doing so, too? This is almost unenforceable. This would likely create a large "gray market" for PMR446 radios being imported to the US, and further the potential for interference.

- ◆ Many previous changes in FCC regulations have been made in the assumption that other countries will follow suit and allow reciprocity. In the case of CEPT and CITEL Amateur radio licensing this has worked well. However, these agreements did not involve CHANGING existing frequency allocations. I have been a UK licensed amateur for 12+ years; my call is "G0POH". In my opinion the likelihood of the UK allowing legal operation of US FRS radios is about 0/0. Why should we allow them to operate over here? With the price of FRS radios dropping rapidly, anyone who can afford to travel to the US should be able to afford a pair of FRS radios AND OPERATE LEGALLY.
- ◆ In the UK, there is a CEPT "CB" allocation and a UK "CB" allocation in the 27 MHz range. Both use FM vs. AM here in the US. Shall we also 'grandfather' these into legality?
- ◆ Being unlicensed, there would be no 'self-policing' as we have in the amateur bands, i.e. frequency accuracy, deviation, audio quality, etc.
- ◆ What is to stop a PMR446 user from 'assuming' a callsign and pretending they are a licensed amateur radio operator? We have enough of this already on HF.
- ◆ If anything, the FCC should put more emphasis on public awareness that PMR446 and any other such radios are not legal for unlicensed operation in the US.

Thank you for allowing me to express my opinion. If you agree (or even disagree), I urge you to write a brief comment to the FCC at the address below, and express YOUR opinion.

Thanks, Don Byrer, KJ5KB/G0POH  
Fairview Park (Cleveland) Ohio

PHONE: (330) 225-7373	RETAIL STORE HOURS [1]
FAX: (330) 225-4333	MON, WED & FRI: 11AM-7PM
PAGER: (216) 634-4290	CLOSED TUES & THURS
ORDERS 877-964-5566	SAT: 10AM-6PM
	SUN: 1PM-4PM
<b>Northern Ohio</b>	
<b>Amateur Radio Depot</b>	
<b>Rick Wells - K8SCI</b>	<b>NOARD Inc</b>
[1] Check phone message machine for any changes in hours 11/2000.	821 Pearl Road Brunswick, OH 44212

# ARRL News

## ***Proposal Filed to Allow European/UK FRS - Type Radios on 70 cm***

*The ARRL Letter  
August 16, 2002*

An amateur from Virginia has petitioned the FCC to allocate eight channels in the 70-cm band for use by visitors from Europe and the United Kingdom with Personal Mobile Radio (PMR 446) transceivers. The recently authorized PMR 446 is similar to the US Family Radio Service. Dr Michael Trahos, KB4PGC, a physician from Alexandria, filed the petition last January, saying it would help to promote international goodwill. The FCC on August 8 designated the petition as RM-10521 and invited comments on the proposal within 30 days.

A General-class licensee, Trahos wants the FCC to amend its Amateur Service "and/or" Family Radio Service rules to allow "visiting/transient/tourist non-amateur non-United States resident foreign nationals" unlicensed access to certain frequencies between 446.0 and 446.1 MHz. He proposed to permit operation at up to 0.5 W PEP output. The ARRL band plan for 70 cm designates 446.0 MHz as a national calling channel. Other frequencies in the segment are for simplex or repeater use.

In his petition, Trahos said existing Part 97 Amateur Service rules precluding the use of PMR 446 radios in the US "are essentially unenforceable" and that granting his petition would have minimal impact on existing amateur operations. "As such, Amateur Radio community oppositions to this petition, though respected, would be misplaced and not in the international public interest or good will," he asserted.

As of August 15, amateur licensees had filed two comments on RM-10521. Both opposed Trahos' petition, citing the potential for interference to amateur operations.

Comments on RM-10521 are due by September 6 and may be filed via the FCC's Electronic Comment Filing System (ECFS) <<http://www.fcc.gov/e-file/ecfs.html>>. To view the Trahos petition and filed comments, click on "Search for Filed Comments." To file comments, click on "Submit a Filing." Enter "RM-10521" (the ECFS is case-sensitive) in the "Proceeding" field of either form.



## ***Section News to Move from QST***

The Section News portion of QST, published continually since the Amateur Radio Journal was first published, will be moved from that location beginning in January 2003. Ohio Section Manager Joe Phillips, K8QOE, today has announced the future plans of the Ohio version of Section News.

First Traffic reports and Ohio Traffic Net news, a staple of Ohio Section News, will remain in QST in the September through December issues without changes. It is the text portions of Section News which will begin changing with the October 2002 issue.

Beginning August 15 (and the 15th of each month after that) the following month's Ohio Section News will be published in Ohio's Ham Radio Newsletters and on the section news pages on the Internet. Newsletter editors will receive the Section News column earlier to observe their deadlines. The size of each column will NOT increase in accordance to the wishes of the Ohio Newsletter Editors. All editors are free to publish all or some of the column according to their own requirements.

The Ohio Web Page address is <[www.arrl.org/sections/OH.html](http://www.arrl.org/sections/OH.html)>. Notices of changes in the web page will be given to Internet subscribers two days in advance of the publishing date.

Beginning with January 2003 (and at the first of every year after that) when Section News will no longer be in QST, the Ohio Section Cabinet will evaluate the program and see what changes are necessary to assist newsletter editors to utilize the column. The primary emphasis of the column is to be printed in Newsletters and the needs and wants of Ohio Newsletter Editors will be the primary concern of its authors.

Plans for access to Section News for those without computers will be published in place of the text portion of November and December issues of QST.

Any additional releases of the Section Manager or other news of the Ohio Section will continue to be released separately according to past news practices.

# ARRL News

## ***Great Lakes Division Leadership Changes***

*Compiled from ARRL Sources  
By Sara Cechner, KC8KSU*

George Race, WB8BGY, of Albion, Michigan, who has served in elective leadership for 12 years, has resigned July 20 as American Radio Relay League Division Director of the Great Lakes Division – the division which includes ARRL members from Michigan and Kentucky as well as Ohio. Race, 66, stepped down in an unexpected move halfway through a recent ARRL Board meeting. He had served as an elected member on the Board for 12 years. Prior to that, he'd held numerous other field organization positions over the years, including several terms as Michigan Section Manager.

The vote to shift “section news” to the Web played a small part in Race's decision to resign, but it was not the primary factor, and he harbors “no bad feelings” that the vote went the other way. “My wife Barb and I just decided we needed some time for ourselves,” said Race, who resigned in a letter to Sumner, who serves as Secretary to the Board. “There's life beyond the League.”

Legendary within the ARRL field organization for his travels around the Great Lakes Division, Race said he's spent some 45,000 to 50,000 miles a year on the road on the League's behalf and “wore out three cars.”

“I've enjoyed so much working with the membership and with the Board,” said Race, who is the Technical Services Supervisor at Albion College, where he's worked for nearly 35 years.

Ohio Section Manager, Joe Phillips, K8QOE, said, “George Race has been a tireless worker in this division. ...George was the most traveled director I knew in representing the ARRL. You could get five hams in a phone booth and George would be there representing the League. His 12 years as section Manager, vice Director, and Director, deserve high praise. Hard work still counts for something in this world.”

Gary Johnston, KI4LA, of Edgewood, Kentucky, who had been Vice Director, was named Great Lakes Division Director immediately by the ARRL in accordance to the standard practice when a director resigns. Phillips said Director Gary Johnston has earned the respect of all the leadership in this Division and he'll lead with distinction. Dick Mondro, W8FQT, of Dearborn Heights, Michigan and current Michigan Section Manager, has been appointed as Vice Director. Debbie Kirkbride, KA8YKK, is the new Michigan Section Manager.

## ***ARRL Division Director's Election Endorsement***

To fellow members of the Ohio Section:

As Ohio ARRL members, the American Radio Relay League during the first week of October, will be sending you a ballot for director of the Great Lakes Division (Ohio, Michigan, Kentucky). The winner begins a three year term on the 15 member National ARRL Board of Directors. The ballot needs to be returned to the ARRL by November 15.

I have stood neutral in other Board elections but this time I will vote to keep Division Director Gary Johnston, KI4LA, of Edgewood Kentucky and I ask you to join me. In working with Gary over the years, the last three when he was Great Lakes Vice Director, I found that he has the sensitivity of the membership and the understanding to make their wishes known to the highest councils of the League. Most of all Gary has clearly demonstrated his ability to understand and work with a membership organization as large and as complex as the ARRL.

Sincerely,  
Joe Phillips, K8QOE  
Fairfield, Ohio

## ***New Web Site***

After an extensive effort, the Great Lakes Division web page has been relocated and redesigned. The new URL is easy to remember, and you are invited to visit frequently...

<http://greatlakes.arrl.org>

Access to Section information is also centralized on our Division web page. Enjoy!

73, Gary KI4LA  
ARRL Great Lakes Division  
Director, [ki4la@arrl.org](mailto:ki4la@arrl.org)

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Box 20100 Cleveland, OH 44120



## 2002 Hamfest Listing

22 **Greater Cincinnati ARA**  
<http://CincinnatiAmateurRadio.com>  
 Contact: Jim Weaver, K8JE  
 Phone: 513-459-0142  
 Email: k8je@arrl.net

22 **Hamfest Association of Cleveland**  
<http://www.hac.org>  
 Phone: 1-800-CLE-FEST  
 Email: info@hac.org

### October

6 **Medina Two Meter Group**  
<http://www.qsl.net/m2m>  
 Contact: Michael Rubaszewski, N8TZY  
 Phone: 330-273-1519  
 Email: n8tzy@m3net.net

## For Sale

### Two HT's

Kenwood TH77A HT Dual Band (VHF/UHF) with all 4 battery packs, manual and BC-11 rapid desk charger, excellent working condition and appearance with box: \$150 Firm

YAESU VX-5 TriBand HT, with box and wall charger, barometer module, standard battery pack, and alkaline battery pack. Excellent working condition and appearance: Originally \$400, Sell \$225 Firm.

Contact: John Baddour, KC8KI, 440-734-3778

### Laminated Mini-Manuals

Laminated Mini Manual recently designed for below listed ham radios. Price is \$4.00 each. For more information, photos and testimonials visit [www.radioamater.com/kb9k](http://www.radioamater.com/kb9k)

Available models:

Yaesu: VX-5R, VX-1R, FT-100, FT-817, FT-90, VX-7

Icom: IC-706, IC-T81, IC-W32

Kenwood: TH-F6

73

Jovan Peric - KB9K  
 3425 W. Ardmore Ave.  
 Chicago, IL 60659

e-mail: kb9k@attbi.com

URL: [www.RadioAmater.com/kb9k](http://www.RadioAmater.com/kb9k)



## Volunteer Exam Dates and Locations

<u>Date</u>	<u>Location</u>	<u>Contact</u>	<u>Phone</u>
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
12/7	Wickliffe	Scott Farnham	(440) 256-0320
12/15	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 Breckville Rd. Doors open at 9:00 AM. Preregistration 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 1:00PM. 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 — 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 ↔ 223.70 MHz Gateway
- 145.07 MHz & 223.70 MHz PBBS

## INTERNET:

- [www.leara.org](http://www.leara.org)
- To subscribe via e-mail, send a message to: [spirit76-request@leara.org](mailto:spirit76-request@leara.org)  
Put subscribe in the subject area and your name and callsign in the body.  
Those who subscribe via e-mail will not receive a paper copy.

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