



The Spirit of '76 and '88



Newsletter of the Lake Erie Amateur Radio Association

Editor: Bryan A. Torok, N8OOF
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Publisher: Jeannie St. Marie, KC8MNW

This Month's Meeting — Tuesday, September 30, 2003

IRLP - Internet Radio Linking Project

Presented by Bob Winston, W2THU, and Jeff Garvas, N8YNR

Please join us on Tuesday September 30th for the next regular meeting of the Lake Erie Amateur Radio Association when our guests will be Bob Winston, W2THU and Jeff Garvas, N8YNR. Bob and Jeff will be providing us with an explanation of What the Internet Radio Linking Project (IRLP) is, how it works, and will also discuss some of the details concerning LEARA's IRLP node, soon to be released on the 444.400 UHF repeater.

The goal of the Internet Radio Linking Project (IRLP) is to pro-

vide a simple and easy system to link radio systems together using the Internet as the communications backbone.



Similar linking options exist, but they use expensive leased telephone lines or satellite equipment. It is not

the goal of this project to compete, but to work along with other networks to improve the technology and improve radio linking for all involved parties. The people who benefit most

(Continued on page 3)

Ah, for the Wisdom of Kings

*By Joe Phillips, K8QOE
Ohio Section Manager
from the Ohio Section Journal,
Ron Griffin, N8AEH, editor*

These are the days when I wish I had the wisdom of King Solomon. Then it would be easy to answer what's going to happen to CW.

And I thought the biggest story out of the World Radiocommunication



Conference (WRC-03) in Geneva in July would concern 40 meters. Silly me. As it turns out most hams want to know what will happen to the Morse Code now the WRC said all countries no longer needed to require CW for amateur HF bands use.

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September, 2003

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<p>The <i>Spirit of '76 & '88</i> is published monthly except in December. Contributions must be received by the 1st of the month.</p> <p>Editor: Bryan A. Torok, N8OOF</p> <p>Associate Editor: Mike DiTurno, KC8OWL E-mail: editor@leara.org</p>	

de N8AUC . . .



So how did you fare during the great blackout of 2003? Lots of people just sat in the dark, whining about not being able to get on the Internet, or watch TV. Or gee, there's no electricity so we can't even play radio. Well, if you were an active Field Day participant (instead of just a tourist), you knew EXACTLY what to do, and you were probably prepared with emergency power. I know I was. Our house was the only one on the block with lights (some people had candles - but it's not the same). And the radios were all working as well. Yes, the great blackout was just like Field Day, except the beds were more comfy, and you could use your home antennas.



I took the batteries in the house, ran an inverter to make some AC (not enough for the fridge or the air conditioner - but we had fans and working lights). Another set of batteries to run the radios, granted at reduced power, but they worked. When the power was off the next day, I used the car to charge the batteries up for the next night. But fortunately they weren't needed, because the power came back the next morning. A 4,000 to 5,000 watt generator would have been better, but I don't have one (yet). The point of all this is that there is a reason why we do things like Field Day. And now you've been through a mild, but real one. Will YOU be prepared for the next one?

The Cleveland Hamfest is coming up. Plan to attend. LEARA will have a club table at the hamfest, and we'll be helping with the talk-in station again this year. So come on out to the Berea Fairgrounds on Sunday, September 28th and join us. Good junk, good people, good time...don't miss it! Besides, it's good to support your local hamfest.

If you missed the August meeting, you missed a good one. Rick Kruis and the gang from Ohio Army MARS gave a great presentation for those in attendance. I used to be in Ohio Army MARS a long time ago. Given the current situation in the world, and the troops we have scattered around the globe, I'm seriously thinking about joining MARS again. The next club meeting will be on September 30th at Dimitri's in Parma. Plan on joining us. Dinner is at 6:30 p.m., and the program starts at 7:30 p.m. Be there or be square.....until then.....

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 p.m. The regular meeting begins at 7:30 p.m. Meetings are open to all interested persons. You may attend without eating, but **reservations are required** if you do wish to eat. Call **Marv Grossman, W8AZO at 440-248-0031** 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 a.m. at the Parma-Snow Branch of the Cuyahoga County Public Library, 2121 Snow Rd., Parma, OH (opposite the Mid-Town Shopping Center). Meetings are open to all current members of LEARA.

Association News

September Meeting Info (cont'd)

(Continued from page 1)
from the IRLP are its users.

The software and hardware requirements are minimal, and the cost to set up a node is low. This brings the opportunity for smaller more remote locations, or small clubs, to experience national linking without the large capital cost of a satellite node or leased line.

Please make plans to join us for what promises to be a very interesting and educational meeting program, not to mention timely, given the recent events taking place in the world around us.

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 p.m. and the formal meeting will begin 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.

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 a.m. OF THE MEETING DATE. Please make your reservation by calling Marv Grossman, W8AZO, at 440-248-0031, calling the LEARA information and voice mail line at 440-942-0154, or by submitting your dinner reservation on-line at www.leara.org under the heading 'Meeting Dinner Request'.

Hope to see you there,

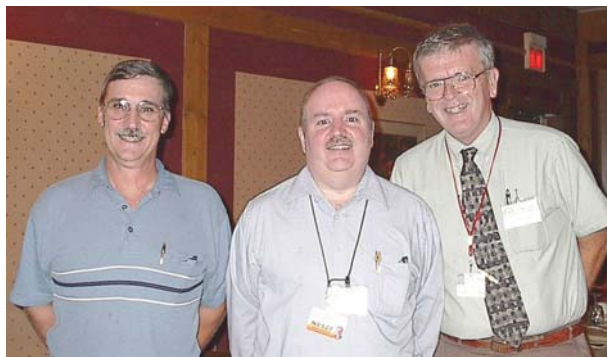
73 de KC8OWL

The August Meeting Recap

On behalf of the Lake Erie Amateur Association I would like to sincerely thank Rick Krus, Duane Crawford, and Bob Evans, all of the Ohio Army MARS organization, for the time, effort, and enthusiasm they put into their presentation during the August LEARA club meeting.

The Army MARS program consists of volunteer members who operate official nets supporting emergency and auxiliary communications. Members must meet the eligibility criteria and retention requirements specified below:

- Must be 17 years of age or older. Signature of parent or guardian is required on the application if under 18 years of age.
- Must be a citizen of the United States or an alien that has been lawfully admitted to the United States for permanent residence.
- Must have a willingness to comply with the regulations prescribed for participation in the Army MARS program
- Must have access to a radio station capable of operating on HF or VHF MARS frequencies.
- Must have a valid FCC and/or host country amateur radio operator license of any class.



From left to right:

Rick Krus
AAM5EOH/
K8CAV

Duane Crawford
AAM5OH/N8SZF

Bob Evans
AAR5UA/K8AAB

Army MARS member responsibilities and requirements include:

- Complete the Basic Training program within 6 months of receiving the temporary MARS call sign.
- Individual and club station members must meet a minimum of 12 participation hours in MARS activities every 90 days to retain licensed membership. Of those 12 hours, 6 must be in on-the-air participation.
- Submission of a monthly participation report
- Conduct only official MARS business on the designated MARS frequencies and nets.

For anyone searching for a way to refine your radio traffic handling skills and also provide a valued service, Army MARS is something to give strong consideration. The time requirements are minimal and potential returns are great. I have a feeling that the presentation made at the August meeting may just result in a few new MARS members!

73 – Mike, KC8OWL

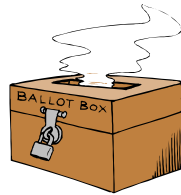
Association News

Election in October

LEARA elections will take place at our Annual Meeting on the last Tuesday of October. All LEARA members in good standing (that is, those whose dues are paid up, with membership ratified by the Trustees) are eligible to vote in this election. If you are in doubt about your eligibility, contact Marv Grossman, W8AZO.

As of Tuesday, August 26, 2003, nominations for the LEARA 2001 election are closed. The following incumbents will be running for re-election:

Dave Foran, WB8APD
Marv Grossman, W8AZO
Jim MacMillan, WA8ZHN
Bryan Torok, N8OOF
Bob Winston, W2THU



Nominations for the following candidates were received after the official deadline. However, they are available as write-in candidates:

Grant Hedrick, KVØT (former NØXIL)
Alex Manuk, WD8JMM

NOTICE TO CANDIDATES: Candidates who have not yet turned in a one or two paragraph (less than 200 words) biography/resume/list of qualifications OR who have not received confirmation of receipt need to contact Mike DiTurno, KC8OWL, or Bill Chaikin, KA8VIT, at the numbers listed on page 2, BEFORE SEPTEMBER 30, 2003. Any bios received after this date will NOT be included with the election materials.

Ballots will be mailed in late September or during the first half of October. Members should receive their ballot by October 14, 2003. It is the responsibility of any member who does not receive a ballot by this date to request a replacement. Members may vote by mail or by bringing the ballot to the October meeting.

VOTE

Please pay close attention to the instructions for voting included with the ballot. Every year a few ballots are invalidated because members failed to sign the outside of the official ballot return envelope.

October is the month LEARA begins collecting dues for the following year. You **are encouraged** to include your LEARA dues for next year in the envelope with your ballot. The Trustees also encourage members to make written comments and enclose those with the ballots. You get to kill three birds with one stone, and LEARA even supplies the envelope. Such a deal!

August Door Prize Winners

Free Dinner: **Flossie Collins**



Digital Multimeter:

Tom Bedocs, K8DMM

Lighted magnifying Glass:

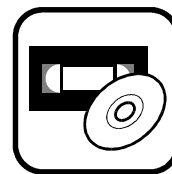
Bob Winston, W2THU

Goose neck magnifying Glass:

Duane Crawford, N8SZF

Helping Hands magnifying Glass:

John Mistic, W8VRJ



VHS Movie Frequency:

Mike Cegelski, K8EHP

DVD Movie Phenomon:

Bill Chaikin, KA8VIT

50/50 raffle (\$22 cash):

Tom Bishop, W8TAB,

who graciously donated it back to the club.



Looking Forward

September 13 — Trustees' meeting, see info on page 2.

September 30 — IRLP (Internet Radio Linking Project) presented by Bob Winston, W2THU and Jeff Garvas, N8YNR.

October 28 — Annual Election; program to be determined.

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

November 25 — Annual holiday social meeting.

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.

Public Service — Upcoming Events

Airport Disaster Drill— September 20th



A disaster drill will be held Saturday, September 20th 2003 at Hopkins Airport from 9:00 a.m. to early afternoon. 25 to 30 hams will be needed, with a limited number stationed at the airport and the rest to cover twelve local hospitals.

Duties will likely include tracking the victims. The hospitals may be providing lunches. Radio operations will be on VHF, possibly the 145.29 repeater.

Race for the Cure — October 11th

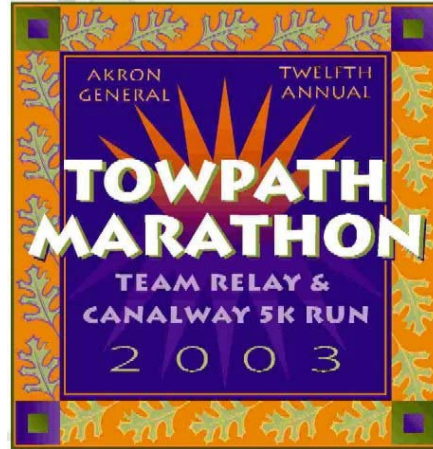


On Saturday, October 11th 2003 the Northeast Ohio Race For The Cure will take place at Voinovich Park, North-coast Harbor, in Downtown Cleveland. Amateur radio volunteers are needed to ensure the safety of the participants and spectators, as well as help race officials maintain communication throughout the event. Registration for the event begins at 06:30 a.m. with the 5k walk / run starting at 08:15 a.m. All events will be complete by noon.

This year, the Susan G. Komen Breast Cancer Foundation celebrates the 20th Anniversary of the Komen Race for the Cure®, the largest series of 5K runs/fitness walks in the world. In 20 years, the Komen Race for the Cure® has grown from one local Race with 800 participants in Dallas, Texas, to a series of more than 100 Races with 1.5 million people expected to participate in 2003.

To volunteer for this life-saving event please contact Mike DiTurno, KC8OWL by e-mail at kc8owl@yahoo.com or by phone at 216-898-1891.

Towpath Marathon — October 12th



The 12th Annual Akron General Towpath Marathon, Team Relays, and CanalWay 5k will be held on Sunday, October 12, 2003, at 9:00 a.m. in the scenic Cuyahoga Valley National Park.



More information is available at the race Web site: www.towpathmarathon.net

To volunteer, contact:
Perry A. Trunick, KB8AYQ, ptrunick@mindspring.com
216-235-6611, cell phone, leave message if no answer.

Upcoming Public Service

October 31— Shaker Heights Pumpkin Patrol

Additional volunteer opportunities are available at <http://www.neopsv.org>

PHONE: (330) 225-7373
FAX: (330) 225-4333

ORDERS 877-964-5566

**Northern Ohio
Amateur Radio Depot**

Rick Wells - K8SCI

[1] Check phone message machine for any changes in hours

RETAIL STORE HOURS [1]
MON, WED & FRI: 11AM-7PM
CLOSED TUES & THURS

SAT: 10AM-6PM
SUN: 1PM-4PM

www.noard.com

NOARD Inc

821 Pearl Road
Brunswick, OH 44212

ARRL News

Wisdom of Kings

(Continued from page 1)

Now what will the United States do?

Why don't people ask me an easy one — such as explain the meaning of life? Like the issues of abortion or gun control, the “CW or no” issue divides this hobby right down the middle. Not quite along generational lines but close--veterans of 20 or more years (count me in) want CW to stay. The younger crowd would have CW disappear altogether.

How will US vote?

What will the ARRL finally support?

While I may not agree with this outcome (and I don't), I believe CW will probably disappear as a testing requirement of ANY U.S. HAM LICENSE altogether in about five years.

Why do I say that? Because every time I hear discussions of Morse Code by ARRL officials and membership forums on the subject, the defense of Morse Code gets weaker and fainter. Remember it was about ten years ago when ANY no code license was on the table. The ARRL response, taking its cue from the membership as it should, started taking the no-code side of the debate. After a year or so just before the FCC acted, the League's attitude for the No Code Tech License finished up in whole hearted support.

In 1999, when the Friendly Candy Company dropped 20WPM and 13WPM requirements, the ARRL said it agreed to the FCC action but was going to have a brand new proficiency element to encourage CW. These proficiency programs have not been a raging success.

Now the WRC-03 says drop the code and the official ARRL statement did not even BOTHER to object on any scale. Our response is that the WRC's proposal “no CW testing requirement” was an issue moving as fast as a speeding freight train — any United States “no” vote was not going make any difference.

Look, I have not used CW mode regularly since my Novice days 40 years ago. But my defense of CW remains solid and has for many years. Beginning with the winter, 1992 issue of the Ohio Section Journal, I wrote against dropping CW. And continue to promote that thought to this day. But please understand my opposition has nothing to do with do the romantic notions of CW and the nostalgic feelings some hams express. Those historic arguments are nice but neither practical or relevant.



No, my comments are practical — CW remains the easiest back up mode of getting the message through when others fail. Only problem is that it requires a cadre of operators who know how to send and receive. Keeping the testing requirements assures that cadre of operators.

But this is no criticism of the ARRL. Generally the League leadership is reading the polls on this and believe (they are probably right) “the dropping CW” stance represents the majority of hams as the ARRL looks to the future.

Special BPL Message to Clubs

BPL is a devastating threat to the Amateur Radio spectrum - especially the HF bands. There has been a lot of publicity on this issue - articles on the ARRL website (www.arrl.org/bpl) and other ham radio sites. Your ARRL is at the forefront of the campaign to defeat BPL and will continue to work tirelessly to protect your Amateur Radio bands. And you can help.

This summer individual hams - and clubs - have responded generously to fund ARRL's efforts to fight BPL, and have filed comments to the FCC. But we still need to raise an additional \$55,000 to fund the field measurements and document filings necessary to defeat this threat. We're all in this effort together, so I hope your club will jump on the bandwagon and support the campaign financially. We've received club contributions ranging from \$50 to \$2000. If your organization has already made a donation, thank you.

If you need more information on BPL for your club, go to the ARRL website (www.arrl.org/BPL) for the full story, including copies of the two FCC filings and a video that graphically demonstrates the interference radio amateurs would experience from BPL. The video can be downloaded and played at your next club meeting, and there's a PowerPoint presentation you can use. Just follow the link above to an “Understanding the NOI” page and a resource page where you'll find the presentation.

ARRL President Jim Haynie calls BPL the biggest threat to Amateur Radio in decades — and hams have lent their voices to the cause. If BPL becomes a reality, many Amateur Radio activities, like Field Day, will be meaningless.

Thank you for considering this request. Contributions can be made on-line at www.arrl.org, or by mail to BPL Special Spectrum Defense Campaign, ARRL, 225 Main Street, Newington CT 06111.

Ham News — Morse Code / Testing Proposals

NCI Rulemaking Petition

Carl R. Stevenson, WK3C
Executive Director, No Code International
 wk3c@wk3c.com



No Code International (NCI) filed a Petition for Rule-making with the FCC on August 13th, asking the

FCC to, as expeditiously as possible, eliminate Morse test requirements for ALL classes of amateur license issued by the FCC, now that the requirement for Morse testing has been removed from the ITU Radio Regulations.

The Petition, which has been assigned the designation RM-10786 by the FCC, can be viewed as an Adobe Acrobat .pdf file at:

http://www.nocode.org/articles/NCI_Pet_RM.pdf

To assist those who support the petition in filing quality comments with the FCC, NCI has made some direct links available to more detailed instructions that one can view and a “template” of the proper format for comments to the FCC that can be downloaded from the NCI website using the following URLs:

http://www.nocode.org/Articles/How_to_file_comments_via_the_FCC_ECFS.html (Instructions on how to use the FCC’s Electronic Comment Filing System to upload your comments once they are prepared.)

http://www.nocode.org/Articles/Proper_FCC_Comment_Filing_Format.doc (a “template of the proper format in MS Word Office 2k Version - save this document to your hard disk for use as a “template” of the “boilerplate” along with some topics to address, then edit to personalize - remember to delete all blue editorial notes!)

http://www.nocode.org/Articles/Proper_FCC_Comment_Filing_Format.pdf (an Adobe Acrobat .pdf version of the “template” that you can at print to see the proper format and duplicate manually if you are unable to use the MS Word version as a “template”)

The NCI Petition stresses the facts that 3 years ago the ONLY reason the FCC gave for keeping ANY Morse test at the time was the (now non-existent) requirement in the ITU Radio Regulations and that there is NO need to re-hash all of the debate over Morse testing that has gone on ad nauseam for decades.

NCVEC New Entry-Level Proposals

The National Conference of Volunteer Examiner Coordinators (NCVEC) has formed a committee to develop an FCC rule-making proposal for a new entry-level Amateur Service license. The move came during the NCVEC’s annual meeting July 25th in Gettysburg, Pennsylvania, where attendees heard presentations on the possibilities for such a new ticket. At the same session, the NCVEC also approved plans to draft and submit a rule-making petition to eliminate the current 5 WPM Morse code requirement (Element 1) and to give Novice/Tech Plus HF privileges to all current Technician licensees. NCVEC Chair John Creel, WB3GXW, of the Laurel VEC presided over the gathering, which included representatives of 12 of the nation’s 14 VECs.



NCVEC Question Pool Committee Chair Scotty Neustadter, W4WW, and Rules Committee Chair Fred Maia, W5YI, offered separate proposals for an entry-level license. Neustadter said while the current entry-level license, the Technician class, provides full VHF and UHF privileges, it does not offer a simple entry path. He recommended a 50-W maximum power output level, Novice/Tech HF sub bands plus 12 and 17-meter privileges and a 20-question written exam.

Maia’s proposal suggested upgrading all current Tech and Tech Plus licensees to General and allowing their use of all bands. Beginner licensees should be granted call signs from the NA-NZ#xxx call sign block, he said. Both Maia and Neustadter suggest ways to streamline the number of license classes. Maia offered up the possibility of asking the FCC to eliminate the Morse testing requirement immediately, easing code exam format restrictions and giving serious thought to dropping CW-only sub bands as well. Neustadter recommended no changes in CW/phone allocations, at least for now.

Maia, Neustadter, Jim Wiley, KL7CC, and John Johnston, W3BE, will serve on the entry-level license study committee. The panel is to report back to the NCVEC within a few weeks.

The NCVEC representatives’ approval to petition the FCC seeking the deletion of the Element 1 Morse code examination requirement for HF access was in reaction

(Continued on page 8)

Miscellaneous Ham News

NCVEC New Entry-Level Proposals

(Continued from page 7)

to the World Radiocommunication Conference 2003 (WRC-03) decision to leave such requirements up to individual administrations. The ARRL-VEC abstained from voting on the issue.

Responding to a question, the FCC's Bill Cross, W3TN, told the group that he did not believe the Administrative Procedures Act would permit the FCC to drop the Morse code testing requirement on its own motion. He predicted a lively debate during any proposal-and-comment period.

In remarks at the meeting, FCC Special Counsel for Enforcement Riley Hollingsworth complimented the VECs for their efforts. He noted that complaints concerning the administration of amateur exams were at their lowest point in the five years he's been handling amateur enforcement. He also said VECs should not underestimate the FCC's concerns regarding examination integrity.

Air Traffic Control on the Web

From information submitted by Mike DiTurno, KC8OWL, and Marv Grossman, W8AZO, and based on published reports in the Cleveland Plain Dealer.

For those of you who are into aircraft and air band monitoring – check this out.

http://www4.passur.com/cle_test.html

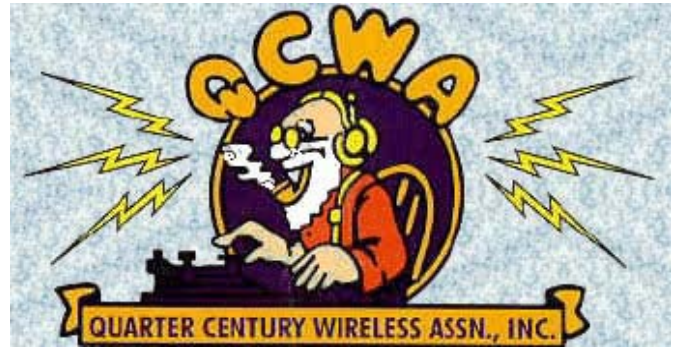
Cleveland Hopkins International Airport is testing a new online radar system--accessible to the public--that tracks the movement of aircraft as they land and take off. The site shows plane silhouettes moving across a color-coded map of Cleveland.

Clicking on a plane reveals the type of aircraft, its altitude and the time it passed over that location on the map. A replay feature later provides the flight number.

Cleveland Port Control Director John Mok said the tracking program, marketed as AirportMonitor, will be available on the airport's Web site, www.clevelandairport.com, for the next couple of weeks as a trial. From the main page, click on "Airport Monitor."

Whether the airport keeps the program will come down to money. Mok said the city will ask 10 to 12 suburbs near the airport to share the \$5,000-a-month cost. A meeting between airport and suburban officials is scheduled for later this month.

Quarter Century Quiz



*Devere E. Logan, WIHEO
delogan@ameritech.net*

Remember 1978? It was only 25 years ago. See how well you recall these events from a quarter century compiled by Cleveland Chapter One of the Quarter Century Wireless Association.

- In 1978, a Heathkit HW-101 HF transceiver cost how much?
A. \$339.95 B. \$439.95
C. \$569.95 D. \$669.95
- The Radio Amateur Callbook listed how many U.S. hams in 1978?
A. 700,000 B. 550,000
C. 300,000 D. 450,000
- Icom's 100-watt HF transceiver was the:
A. IC-705 B. IC-670
C. IC-720 D. IC-701
- AMSAT launched this satellite on March 5, 1978:
A. Oscar 4 B. Oscar 8
C. Oscar 3 D. Oscar 5
- Senator Barry Goldwater operated maritime mobile with this call:
A. K6UDA B. K7UGA
C. W7BG D. W7UGA
- The System One antenna was made by:
A. Cushcraft B. Mosley
C. Wilson D. Hy-Gain

Check the answers below, and if you scored well perhaps you qualify for membership in the Quarter Century Wireless Association and Cleveland Chapter One. For an application and information on joining QCWA, write to QCWA Membership, c/o Dee Logan, 9901 Cypress Circle, Mentor, OH 44060.

Answers: 1-A, 2-C, 3-D, 4-B, 5-B, 6-C

Hamfest Listing

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

September

28 Cleveland Hamfest and Computer Show, Hamfest Association of Cleveland

http://www.hac.org; Contact: Hamfest Association of Cleveland, Inc., P.O. Box 81252, Cleveland, OH 44181-0252

Phone: 1-800-CLE-FEST

Email: info@hac.org

October

5 Medina Two Meter Group

www.qsl.net/n8tzy; Contact: Mike Rubaszewski, N8TZY, 4264 Alpine Court, Brunswick, OH 44212

Phone: 330-273-1519

Email: n8tzy@m3net.net

25 Stark County Fairgrounds, Massillon ARC

www.marcradio.org/hamfest.htm Contact: Terry Russ, N8ATZ, c/o MARC, P.O. Box 73, Massillon, OH, 44648. Phone: 330-837-3091

Phone: 330-837-3091

Email: w8np@qsl.net

For Sale

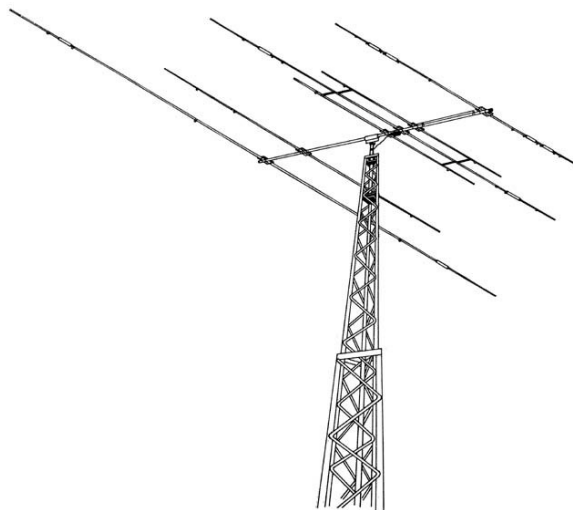
Hy-Gain Explorer 14 Multi-band Yagi, polished and in good condition with some new hardware.

The beam is \$100.

More info at:

www.hy-gain.com/products.php?prodid=EXP-14

Contact: Dee, W1HEO, at (440) 352-8292 or delogan@ameritech.net.



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>
9/14	Independence	11/16	Elyria
9/21	Elyria	11/29	Canton
10/4	Wickliffe	12/6	Wickliffe
10/19	Elyria	12/21	Elyria
11/9	Independence		

Akron, Pioneer AR Fellowship - 2324 Manchester Rd., Akron, OH, 44314. Pre-registration preferred, check-in 6:30 p.m., test at 7:00 p.m., 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 p.m., 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 a.m., 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 a.m., walk-ins allowed. **Contact:** Gary L. Kline, 330-837-2927, wc8w@sssnet.com, or www.qsl.net/w8np.

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

Elyria - American Red Cross, 2929 West River Rd., Elyria, OH, 44035. Testing at 1:00 p.m., 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 a.m. 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 p.m., 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 \$12.00. Check with the contact person in advance for specific testing site requirements and any special test accommodations needed.

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 (Requires 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

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