



# The NKARC Feedline



A Monthly Newsletter Brought To You by The Northern Ky Amateur Radio Club

March 2025



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## NKARC Club Officers & Contacts

<u>Position</u>	<u>Name</u>	<u>Contact Info</u>
President	Todd Sayers, KY4TLS	<a href="mailto:ky4tls@nkarc.org">ky4tls@nkarc.org</a>
Vice President	Rod Milligan, KY4ROD	<a href="mailto:ky4rod@nkarc.org">ky4rod@nkarc.org</a>
Director At Large	Frank Austin, KI4QFL	<a href="mailto:ki4qfl@nkarc.org">ki4qfl@nkarc.org</a>
Treasurer	Tim Lawrence, W4TWL	<a href="mailto:w4twl@nkarc.org">w4twl@nkarc.org</a>
Secretary	Doug Cooper, KE4DTC	<a href="mailto:ke4dtc@nkarc.org">ke4dtc@nkarc.org</a>
ARRL NKY-VE Test Lead	Mark Volstad, AI4BJ	<a href="mailto:mvolstad@twc.com">mvolstad@twc.com</a>
ARRL KY Sect Youth Coordinator	Mark Volstad, AI4BJ	<a href="mailto:mvolstad@twc.com">mvolstad@twc.com</a>
Net Manager	Al Van Dyke, WB8RGE	<a href="mailto:wb8rge@gmail.com">wb8rge@gmail.com</a>
NKARC Feedline Editor	Rod Milligan, KY4ROD	<a href="mailto:ky4rod@nkarc.org">ky4rod@nkarc.org</a>
Webmaster	Sean Waldrip, WA9SAW	<a href="mailto:webmaster@nkarc.org">webmaster@nkarc.org</a>

## Club Mailing Address:

**NKARC**  
**PO Box 354**  
**Union, KY 41091**

## Meeting Location and Time:

**7:00 PM on the 3<sup>rd</sup> Monday of each Month**

**Bethesda Community Church**  
**989 East Mount Zion Road**  
**Independence, KY 41051**

*All are Welcome! All members and guests are strongly encouraged to attend in person to promote networking, fellowship and to grow trust and camaraderie.*



## **In This Month's Newsletter**



- NKARC Club Membership Info & Payment Options
- Help NKARC with the ARRL Club Commission Program
- News from the Feedline Editor
- NKARC Club Net Information
- Net Control Radio Package Raffle
- This Month's Club Informal Leadership Meeting
- This Month's Business / Presentation Meeting
- Upcoming Meeting Presentations
- Next VE Testing Session Date/Time
- NKARC March 1<sup>st</sup> Tour of the GE Evendale Aviation Learning Center and Jet Engine Museum.
- Regular Monthly Scheduled Events – Chili Lunches / Monthly Breakfast
- Special Events & Field Trips – NKARC Fox Hunt / VOA Museum & WC8VOA Ham Shack Tour

## NKARC Membership Info

Membership to the Northern Kentucky Amateur Radio Club is open to anyone who has an interest in Amateur Radio. Dues are \$25.00 per year for licensed amateurs and \$15 for each additional household member. If you want to become part of this great club, please [download the membership application](#), fill it out and either turn in in at our monthly meeting or you may mail it to:

NKARC  
P.O. Box 354  
Union, KY 41091

Membership dues can be paid in person by cash or personal check. Membership dues run January through December each year.

**\*\*\* Coming Soon \*\*\*** PayPal credit card payment option through the NKARC.org website. Look for the “**Payments/Donations**” Option off the Main Menu. The PayPal payment option is expected to be active by April.

**Existing Members: PLEASE REMEMBER TO RENEW YOUR 2025 MEMBERSHIP !**  
**The club needs your membership and participation to remain strong !**

## ARRL Club Commission Program

If you are a current ARRL Member or you are looking to becoming an ARRL Member, You can help NKARC financially by participating in the ARRL Club Commission Program. The [ARRL Club Commission program](#) is an ARRL Affiliated Club Benefit that provides revenue benefits to your club when club members become new ARRL Members or renew their existing ARRL Membership.

**Each new ARRL STANDARD membership earns the club a \$20 commission** (family, student/youth, and blind memberships are not eligible). **Each Membership Renewal earns the club a \$5 commission**. Multi-year memberships only receive a single commission (same amount as a standard single year membership). New members are defined as never having been a member or a returning member that has not been a member for two years or more. There is no limit to the amount of commission a club can earn in this program. The commission to the club costs you (the member) - nothing additional. Here is how to participate in the program:

**\*\*\* Important \*\*\* Your ARRL Membership must be submitted through the club in order for NKARC to earn the commission. Joining the ARRL directly by the club member earns no commission for the club !**

1. Each new or renewing ARRL member should fill out a [membership application form](#) (at this link)
2. Payment in **FULL** can be made to ARRL by check, credit card, or cash. You may mail the application to the Club PO Box, or you may submit it in person at our monthly meeting. If you pay by credit card please put your credit card info in the appropriate fields on the application form.  
**\*\*\* IMPORTANT: If you pay by check, DO NOT make the check out to NKARC, please make the check out to ARRL.**
3. The club leadership will submit all of the Membership Application Forms, Forms of Payment to the ARRL, along with the required Club Commission Reconciliation Form to the ARRL. The applications are submitted to the ARRL by the club once a month usually within a week after our monthly meeting.
4. ARRL will process the applications when received and NKARC should receive a commission payment within two to three weeks of ARRL receiving the forms.

**Please consider taking advantage of the ARRL Club Commission Plan it is a great way to help NKARC raise additional revenue for the Club and it costs you nothing more than a standard ARRL membership fee !**

## News From the Feedline Editor... Rod Milligan / KY4ROD

The response for our revived newsletter – The NKARC Feedline has been overwhelmingly positive from our membership. Thank you to everyone who shared their opinions and comments last month. It was a pleasure to re-introduce the Feedline to NKARC after it's long absence. Many of our long-term members remember the original Feedline newsletter, it was originally published from 1974 through 2012 when it was discontinued. One member commented that the returning Feedline was like “welcoming back an old friend”.

You will notice that this month's Feedline has had several formatting changes applied to it which make it much less complex to organize and publish. Hopefully the new format will also make it easier to read. The Feedline will be distributed via email through groups.io

each month. There are also plans to make the Feedline available through the NKARC.org website.

At our Informal Club Leadership Meeting on March 9th, a suggestion was made by Jack Prindle AB4WS to include a single guest article each month to the newsletter. The newsletter "Guest Article" will be authored by one of our members each month. The guest article will be a great way to share knowledge between members and foster participation in the newsletter. We hope to begin the Guest Article section next month in the April Edition of the Feedline. I would encourage everyone to try and submit something, do not feel that you have to be an accomplished author or that your submission has to be something technical in nature... It does not! Possible subjects for your submission may include:

- A story about an experience you had in amateur radio, it can be something serious or something funny. Maybe say something about your journey in amateur radio and how you got to this point. You could maybe write a short biography about yourself and your interests that other members of the club may not know about you, this could be a great way to introduce yourself to the membership and encourage friendships within the club.
- Submit a report of a portable operation such a POTA Activation or a Contest Weekend that you participated in.
- Maybe submit an article on how to mentor someone, how to be a successful Elmer. Explain the virtues of an Elmer... how to present topics in a way that's easily understood, patience, how to be there for someone who is in need of some guidance.
- Maybe an article on how to get the most out of attending a hamfest? Maybe present your strategy of what you prioritize and the plan detailing what to do first at a hamfest – Maybe its vendor shopping first to grab a hot item that's in short supply, then maybe a seminar, a license testing session, a visit to the flea market... even lunch! This could be your chance as a seasoned "hamfest veteran" to educate a newer member on the social, financial and fun aspects to someone who has never attended a hamfest, whether it be something huge like Dayton Hamvention or something small like a local club hamfest.
- Maybe just a simple "tips and tricks" article on organizing your shack, maybe tips and tricks on how to operate Field Day, POTA or SOTA.
- Possibly an article the Do-s and Don't-s on radio etiquette on making out a contact or how to participate in a net. Maybe an article on "Now I have my license, where do I go from here?" ; How to get over mic fright; Maybe do an article on proven study habits you have used successfully to prepare for an amateur radio exam.
- Your article could be something technical if you feel so inclined to mentor others within the club on a particular subject in amateur radio. Possibly do an article on What is DMR, C4FM, DStar, AllStar, Whats a Hotspot? What about solar power to power your equipment ? The subjects can be endless in this category.
- Maybe do something on how to build a particular kit or an antenna. Maybe something on how to setup a Go Bag or Emcomm kit ?

Rules for submitting an article are as follows... Submit your article in either MS-Word format or PDF format to where it can be easily added to the newsletter. Guidelines for articles are a minimum of 1 decent sized paragraph up to 1 or 2 pages. Articles may be simply text or may include a mixture of text and pictures. In the case of several short submissions, more than 1 submission may be published in the same issue at the editor's discretion. In the case of a very long article, the article way be broken up in sections and published as a multi-part article over a couple months, again this is at editor's discretion. After the submission deadline You will receive an email stating if your article is accepted and when it is expected to be published. Deadlines for submissions will be on the 7<sup>th</sup> of each month. The Feedline will be published approximately 1 week before our scheduled meeting date. Submit your articles via email to [ky4rod@nkarc.org](mailto:ky4rod@nkarc.org).

Finally, in closing, if you have any suggestions or comments on the Feedline, please feel free to put them up on groups.io or email me directly at [ky4rod@nkarc.org](mailto:ky4rod@nkarc.org).



## Club Nets Information



**Weekly 2m NKARC Net:** Held Tuesdays at 8:30 PM local time on the 146.79 WB8VOA Repeater (minus) - 600 Khz Offset with a PL tone of 123 Hz. Net Controllers and Net Loggers rotate each week monthly, a scheduled Net Controller / Net Logger list is published each month.

**Monthly NKARC 2M Simplex Net:** Occurs on the 1st Sunday of each month at 6 PM on Simplex Frequency 146.580. Join us in this fun event as we participate in a simplex net to practice and develop our communication skills without the use of repeaters. Please remember this net uses relayed check-ins and the more people we get to check in, the better the chances of us getting further out into the Tri-state area. This net was run by Matt Conley each month, we are in the process changing the Net Control to a rotation as we have for the weekly 2m NKARC net. **A big "Thank You" goes out to Matt for establishing this net & all the planning that goes into it!**

New Net Control Ops are always welcome. If you want to help out, or gain experience as a net control operator for either net, please

email Al Van Dyke at [wb8rge@gmail.com](mailto:wb8rge@gmail.com) . The Net Control announcement scripts can be found and downloaded in the files section on groups.io.



## Net Control Radio Package Raffle



In order to encourage more Net Control participation in our Tuesday night 2-meter net, we are thrilled to announce a special **raffle** for a **Quansheng K5 radio package!**

This radio package was generously donated by Doug Cooper (KE4DTC). This radio comes equipped with the latest F4HWN firmware and is pre-programmed with local 2m / 70cm repeater frequencies. Plus, the winner will receive an awesome set of bonus accessories, including:

- ✓ Programming cable
- ✓ Carrying case
- ✓ Abbree 771 antenna
- ✓ Abbree mini gooseneck antenna
- ✓ Nagoya UT-106UV mobile antenna

### How to Enter:

Simply serve as **Net Control** or **Net Logger** between **January 1 and March 31** to earn a raffle entry. During our **April club meeting**, we'll hold a drawing and award the radio to one lucky winner—**no need to be present to win!**

### Who Can Participate?

**This raffle is specifically aimed at encouraging new participants. If you've never served as Net Control or Net Logger before, you're eligible to enter!**

### Sign Up Today!

To schedule yourself as **Net Control** or **Net Logger**, contact **Al (WB8RGE)** at [wb8rge@gmail.com](mailto:wb8rge@gmail.com)

Have No Fear...It's not as hard as you think! If you have never served as a Net Control or Net Logger, Al will be more than happy to provide you the necessary assistance and training it takes to make you a successful Net Control or Net Logger. Al will provide whatever assistance is necessary to make you successful.

Don't miss this chance to step up, support the net, and win a fantastic radio package!



## This Month's Informal Club Leadership Meeting



Our March 2025 Informal Club Leadership meeting took place Sunday March 9<sup>th</sup> @ 13:00.

The purpose of this leadership team meeting is to prepare for the upcoming regular club meeting by establishing a clear and organized agenda. This session serves as a brainstorming session and planning meeting to ensure all key topics, activities, and updates are addressed, keeping the club on track and progressing. No votes will be taken, and there are no hidden agendas - our sole focus is on collaboration and the continued growth of the club and its members. The session serves as a planning session for the upcoming meeting agenda.

### Attendees:

- **President:** Todd Sayers (KY4TLS)
- **Vice President:** Rod Milligan (KY4ROD)
- **Director at Large:** Frank Austin (KI4QFL)
- **Secretary:** Doug Cooper (KE4DTC)
- **Treasurer:** Tim Lawrence (W4TWL)
- **Special Guest:** Jack Prindle (AB4WS)

### Topics of Discussion:

- Meeting was opened with a discussion about the newly revived club newsletter – The Feedline. Membership response has been positive towards the newsletter. Minor adjustments to the format were discussed in making the publishing process easier. Jack Prindle suggested a monthly “Guest Article” be added to the newsletter, authored by one of our members each month. Each month would include a single guest article in the newsletter. The guest article will be a great way to share

knowledge between members and foster participation in the newsletter. There are more details on the guest article feature listed above in the "News from the Feedline Editor" section of the newsletter.

- We continued our discussion from last month's meeting on generating engaging activities for club members (group field trip outings, POTA activations, foxhunting etc). A couple of additional suggested outings were brought up such as field trip to Florence Y'Alls baseball games, a visit to the American Sign Museum in Cincinnati, the Warbird Museum in Batavia and possibly a trip to the US Air Force Museum at Wright Patterson AFB in Dayton. We are currently research the possibilities of these suggested events and will report back later as details and dates are worked out. There were also some preliminary plans for possibly a couple of POTA outings this year at Big Bone Lick, possibly the first being in May.
- We discussed the success of this month's field trip to the GE Evendale Aviation Learning Center. We had a discussion about our upcoming First Annual NKARC Fox Hunt event on Sat March 29th at Fox Run Park in Independence. Status was given on the upcoming VOA National Museum of Broadcasting field trip on Sat April 26th, signup has been good, but we are still looking for more participants. More info on these events are listed in this newsletter.
- The question of the VE Testing program was discussed. Preliminary suggestions were made for adding the VE Testing as an additional article to the club by-laws by the club leadership and Jack Prindle. More discussion is needed at this point before the wording is finalized for the addition to the NKARC club By-Laws. Once all the wording and processes are finalized between the club leadership and all parties involved, the addition of the VE Testing article will be made public to the membership with the required 2 monthly readings followed by a motion to approve or dis-approve the amendment per the requirements listed in the club by-laws.

Note: This is just a brief summary of the Leadership Meeting. Actual minutes of this informal Leadership Meeting as well regular Official Club Business Meetings will be available in the NKARC Groups.IO Files Section.



## This Month's Business / Presentation Meeting



The next scheduled NKARC Business / Presentation meeting is scheduled for Monday March 17th at 7 PM at:

**Bethesda Community Church**  
**989 East Mount Zion Road**  
**Independence, KY 41051**

Official meeting agenda to be published on Groups.IO prior to the meeting. Topics to be discussed will be some of those from the Informal Club Leadership Meeting from March 9<sup>th</sup> as well as some upcoming important announcements and activities.

Following the short business meeting will be a presentation on Fox Hunting by Dick Arnett WB4SUV in preparation for the club Fox Hunt on Sat 3/29 at 9:30 AM, if it is raining, our scheduled makeup day is the following Saturday, April 5<sup>th</sup>. More details below under **Special Events and Field Trips**.



## Upcoming Meeting Presentations



### **Monday March 17th @ 7 PM**

#### **Presentation Fox Hunting by Dick Arnett WB4SUV**

This presentation will explore the various types Fox Hunting, the equipment required and the technique of locating hidden transmitters. We will cover the many ways of performing transmitter hunts, along with specialty equipment that's required for hunting intentional as well as non-intentional interference. Dick will answer your questions afterwards. Have you already made your measuring tape antenna? Did you get your attenuator? Do you have the cables from the antenna, to the attenuator and then to your radio? If not, we have time to get things together. Here is a video to watch Michael KB8VBR build one and you can get your parts list from him. <https://youtu.be/BmHoQrDfw-0?si=wVYEzPx4a0Yf-yd1>. Attenuators can be purchased from KC9ON's Online store online at <https://kc9on.com/product/fox-hunt-v7/> either as a kit or pre-assembled attenuator.

If you need help building your antenna, Dick will host a build day to help you solder the antenna leads on or put together your antenna, let us know by reaching out to Dick Arnett [wb4suv@gmail.com](mailto:wb4suv@gmail.com) or Todd Sayers [ky4t1s@nkarc.org](mailto:ky4t1s@nkarc.org). Please see the Fox Hunting email labeled "NKARC Fox Hunting Day" dated 02/21/2025 by Todd Sayers posted on Groups.IO for details. This presentation is in preparation for our First Annual Fox Hunt to be held at Fox Run Park in Independence on Sat March 29th at 9:30 AM (Rain date will be April 5<sup>th</sup>). More details about the event below under **Special Events & Field Trips**.

### **Monday April 21st @ 7 PM**

#### **Group Presentation (Show & Tell) – Show us your Portable Go Kit and your Favorite HT.**

*(This presentation was moved from March to April to accommodate the Club Fox Hunt in March)*

Members will be asked to bring their Portable Go Kits for POTA / SOTA and / or their favorite HT(s) and accessories. If you don't have a Go Kit or Go Bag, please bring your favorite HT, there is something for everyone who operates portable, whether its operating at QRO or QRP power levels or just from your favorite HT. Members will be asked to present to the group the reasons why they chose the equipment they did and what particular usage scenarios they use them for. Focus on the pros and cons of each and the reasons you had for purchasing them. This presentation is aimed at assisting our newly licensed as well as intermediate hams with information to aid them in selecting / building a Portable Go Kit or selecting a particular HT.



## Next VE Testing Date / Time



The Northern Kentucky Amateur Radio Club is pleased to sponsor the our ARRL accredited VE Team. Our VE Team offers in-person license exams for anyone interested in earning their first license, and for existing license holders who wish to upgrade. The next scheduled VE Testing Session is scheduled for Monday March 17<sup>th</sup> at 5:30 PM at:

**Bethesda Community Church**  
**989 East Mount Zion Road**  
**Independence, KY 41051**

### Registration Required

To attend an NKARC exam session, please register at the link below. Walk-ins are not accepted.

<https://hamstudy.org/sessions/NKARC>

### What to Bring

A list of what you should and should not bring to the exam session can be found at [www.arrl.org/what-to-bring-to-an-exam-session](http://www.arrl.org/what-to-bring-to-an-exam-session).

This information is very important -- make sure you read it! Of primary importance is an FCC Registration Number (FRN). If you do not have an FRN, you will not be able to take an exam. If you are upgrading, you must bring proof of your current license.

### Special Needs Accommodations

Our team will do their best to accommodate candidates with special needs. Please contact Mark Volstad under the contact info below.

### Fees

#### ARRL Exam Session Fee

The ARRL charges an exam session fee of \$15, which our testing team collects on their behalf. This fee is reduced to \$5 if the candidate is under 18 years of age. Payment is made at the exam session by cash, check or money order. This fee is not refundable if the candidate fails to pass the exam.

#### FCC Application Fee

The FCC charges a \$35 application fee to all first-time licensees. This fee is paid directly to the FCC. Upon receiving a license application from the ARRL, the FCC will email a link with payment instructions directly to the candidate. The candidate will have 10 calendar days, from the date of the application file number being issued, to pay. After the fee is paid, and the FCC has processed the application, examinees will receive a second email from the FCC with a link to their official license. More information can be found here: <https://www.arrl.org/fcc-application-fee>

#### ARRL Youth Licensing Grant Program

The ARRL will cover the one-time \$35 FCC application fee for new license candidates younger than 18 years of age for tests administered by NKARC. The \$35 FCC application fee will be reimbursed after the new license has been issued by the FCC. The reimbursement check will be mailed by the ARRL directly to the fee payer.

### Contact

If you have a question that is not covered above, please reach out to the NKARC VE Team Lead, Mark Volstad, at [mvolstad@twc.com](mailto:mvolstad@twc.com) or 859-991-3906.

Please see the NKARC website <https://nkarc.org/exams.html> for additional details

**Note: New candidates who successfully pass their Technician class exam will receive a FREE NKARC Club Membership for the balance of the year!**



On Saturday March 1st, NKARC Members had a great time at the General Electric / Evendale Aviation Learning Center to tour the Jet Engine Museum. We had a great turnout with about 25 members and their families participating (not all are shown in the above picture). Our group enjoy the tour of the museum, it was a self guided tour of GE military and commercial jet engines and their development from WWII through the present day. Breakfast and refreshments were provided by GE. **A “Special Thanks” go out to Larry Silverman WB2GYS and his daughter Jennifer for arranging the tour for the club!**



## Regular Monthly Scheduled Events



### Weekly Chili Lunches

Every Tuesday at a different local Skyline Chili 10:45 till 12:30

1<sup>st</sup> Tuesday – Richwood – 339 Richwood Rd, Walton, KY 41094

2<sup>nd</sup> Tuesday – Turfway – 1345 Hansel Ave, Florence, KY 41042

3<sup>rd</sup> Tuesday – Hebron – 1960 Litton Ln, Hebron, KY 41048

4<sup>th</sup> Tuesday – Industrial – 7340 Industrial Rd, Florence, KY 41042

5<sup>th</sup> Tuesday – Independence – 1968 Declaration Dr, Independence, KY 41051

### Monthly NKARC Saturday Breakfasts

These breakfasts occur generally on the 3<sup>rd</sup> Saturday of each month; we have a breakfast at a local restaurant and you will need to follow us on Groups.io to see where we are planning to meet at. This month's meet will be on Saturday March 15<sup>th</sup> will be at the Bob Evans / Dream St – Florence from 9 AM -1030 AM.



### **NKARC 1st Annual Fox Hunt – Sat 3/29/2025 (Rain Date Sat 4/5/2025)**

Fox Run Park  
604 Independence Station Road  
(Near Lincoln Ridge Park)  
Independence, KY 41051  
Saturday March 29th @ 9:30 AM (Rain Date Saturday April 5th)

Is there a better place to do our first fox hunt than Fox Run park in Independence? Although our foxes will be hiding and not running, this park used to be a 18 hole golf course, so there will be a lot of space to hide transmitters.

Dick Arnett WB4SUV will teach us everything we ever wanted to know about finding those pesky little transmitters. Have you already made your measuring tape antenna? Did you get your attenuator, how about the cables from the antenna, to the attenuator and then to your radio? If not, we have time to get things together. Here is a video to watch Michael KB8VBR build one and you can get your parts list from him. <https://youtu.be/BmHoQrDfw-0?si=wVYEzPx4a0Yf-yd1> . Attenuators can be purchased from KC9ON's Online store online at <https://kc9on.com/product/fox-hunt-v7/> either as a kit or pre-assembled attenuator.

If you need help building your antenna, Dick will host a build day to help you solder the antenna leads on or put together your antenna, let us know by reaching out to Dick Arnett [wb4suv@gmail.com](mailto:wb4suv@gmail.com) or Todd Sayers [ky4t1s@nkarc.org](mailto:ky4t1s@nkarc.org)

### **National Voice Of America Museum of Broadcasting – Sat 4/26/2025**



**When:** Saturday April 26, 2025 / **Time:** 9 AM to 12N  
**Location:** National Voice Of America Museum of Broadcasting  
8070 Tylersville Rd (for GPS use: Crosley Blvd as address)  
West Chester, OH 45069

For more info on the VOA Museum see: <https://voamuseum.org>

**Directions:** Take I-75 North, past I-275 (Northside of Cincy) to Exit 22 – Tylersville Rd. At the top of the Tylersville Rd exit ramp turn right, heading east-bound on Tylersville Rd toward Mason approximately 1 mile. The VOA Museum sets back in a field on your left after you pass all the shopping centers. There is a sign on your left for the museum next to the Crosley Drive entrance leading to the museum. . Parking and the Museum entrance is located to your right on the East side of the building.

**Admission:** \$10.00 per Adult, Children 15 and under Free

**\* Note: We must have a minimum of 15 confirmed paid admissions to qualify for our private club tour, please do not sign up and then no-show. If for some reason you cannot make it, please notify Rod Milligan as soon as you can so we can find alternates if needed.** You will pay your admission at the museum, the day of the tour. Signup by either filling out the signup sheet at the meetings or emailing Rod Milligan at [ky4rod@nkarc.org](mailto:ky4rod@nkarc.org). information will be presented at the Feb and March meetings for this field trip. The tour will be open to members of NKARC as well as ARETNKY (KY6ET) and their families. The museum is fully ADA access compliant.



NKARC is proud to announce that we have secured an exclusive access for private tour of the National VOA Museum of Broadcasting on Saturday April 26<sup>th</sup> from 9 AM to 12 Noon, for NKARC and ARETNKY members before the museum opens to the general public at 12 Noon. We will have the entire facility to ourselves with a guided tour of the facility from VOA Tour guides along with a tour of the West Chester Amateur Radio Assn WC8VOA Ham Shack. The ham shack is truly “a world class contest station” and WC8VOA club members will be on site to answer your questions and allow you supervised access to operate from their shack using the WC8VOA club callsign if you wish to do so.

Some Items of interest in this tour include:

- A video explaining the history of the VOA and the Bethany Relay station and its construction. You will learn about VOAs role in fighting propaganda, educating the world about American values and the English language and providing hope to people that had very little during WWII and the cold war.
- Discover how Cincinnati became the center of broadcast engineering with VOA in the 1940s, Not New York, Chicago or Los Angeles. Learn about the history of radio and Cincinnati broadcast history.
- History of the Crosley brothers - Powel and Lewis Crosley who were ultimately responsible for the construction of the 6 original 200 KW transmitters, the VOA relay station as well as WLW and WLWO.
- Learn why Cincinnati was chosen as the site for the VOA Bethany Relay Station.
- Visit the Crosley exhibit displaying all the Crosley Brothers - Powel and Lewis' inventions and patents in appliances, automotive products, aircraft and radio. The Crosley brothers were visionaries ahead of their time. Among their inventions famous inventions are:
  - 1939 Crosley – America's first compact car boasting 50 mpg and the 1949 Hotshot sports car.
  - The first American carmaker to implement disc brakes on all its models.
  - The first pushbutton car radio
  - The first mass produced affordable radio for everyone.
  - First implementation of lights on a major league baseball field
  - The first non-electric refrigerator & the first refrigerator with shelves in the door.
  - The Reado Radio Fax machine - The first affordable facsimile radio that allowed broadcasts of the newspaper overnight via radio fax.
  - The top-secret radio altimeter proximity fuse for developed for the US Military and the Allies in WWII. The proximity fuse was considered the #2 invention during WWII with the atomic bomb being #1.
- The first implementation of 50 KW, 200 KW and 500 KW commercial radio transmitters. See one of the original 200 KW Crosley WLWO transmitters as well as a walking tour through the remaining VOA #6 Collins 250 KW transmitter.
- Learn about the VOA Bethany Relay Station's antennas including the 24 rhombic antenna arrays and its two 21db + gain Sterba curtain antennas that could beam VOA signals from Cincinnati to South America and the Caribbean, Europe, North Africa, Russia and Asia.
- Tour the VOA Control Room. Learn about VOA's feedlines and its antenna switching matrix.
- Learn about radio technology from the late 1800s to the present day and the implementation of the first radios that were added to aircraft and ships.
- Visit the newly added STEM lab which explains the origins of radio from magnetism to radio broadcasts using morse code and modulated carriers
- Visit the new sound effects lab which shows hands on prototypes of the first devices used to create sound effects for radio programs.
- Learn about the early days of broadcast entertainment with displays of the Larry Smith Puppets, Ruth Lyons and WLW talent including Rosemary Clooney, Doris Day, Red Skelton and Rod Sterling.
- See the original RL Drake radio collection of Bob Drake containing nearly every radio produced by the RL Drake company in Springboro OH.
- Visit the “Ham Radio Room” displaying many vintage amateur radios, shortwave and broadcast radios as well as a vintage Collins ham radio station.

Following the tour, the West Chester Amateur Radio Association who are headquartered at VOA will open their world class, high power contest station WC8VOA to our club to tour and we have supervised access to operate out of their shack, if we choose.

