

Q-FIVER

The Official Newsletter of the OH-KY-IN Amateur Radio Society



Awards presented to remaining 2018 recipients



Julianna DiBenedetto KE8IUU
Young Ham of the Year



John Phelps N8JTP
Meritorious Service Award

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OH-KY-IN Repeaters

146.670 (-) Clifton

146.625 *(-) Edgewood

146.925 *(-) Delhi

443.7625 *(+5) Clifton

A CTCSS (PL) tone of 123.0 Hz is required for access to all OH-KY-IN repeaters. All repeaters also transmit a CTCSS (PL) tone of 123.0 Hz

** Fusion Repeater*

APRS on 144.390 mHz

K8SCH-10 Edgewood WIDEn

Packet on 145.010 mHz

K8SCH-7 Digipeater

For membership information, please contact Nathan Ciufo KA3MTT, 6323 Cinnamon Ridge Dr, Burlington KY 41005, (859) 586-2435 or Email membership@ohkyin.org. Renewals of Club Memberships are due by the end of March. Permission is hereby granted to any amateur radio group to quote or reprint from this publication, if proper source credit is given, unless permission is otherwise reserved.

THE Q-FIVER is now mailed & e-mailed, it's hoped, a week before the club meeting.

Normally copy deadline is the weekend before that. Please send your submissions for THE Q-FIVER (including notice of upgrades & call sign changes) to Brian K4BRI

These may be: snail-mailed to or dropped off at 6901 Backus Drive, Alexandria KY 41001 or telephoned to (859) 635-3095 any time

Oh-Ky-In Life Members

John Phelps N8JTP

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 TV/RFI Dick Arnett WB4SUV
 HamFest Gary Coffey KB8MYC

The monthly Board meeting has relocated from My Neighbors Place to United Methodist Church at 3460 Epworth Ave—still on the second Tuesday of the month at 7PM. Board meetings are open to everyone—you do not need to be a board member to attend.

April 2019 Calendar

Tue Apr 2	7:30 PM	Club Meeting in St Bernard—Antenna Modeling by Brian K4BRI
Wed Apr 3	9:00 PM	Tech Talk, NCS Robert AK3Q
Sun Apr 7	7:00 PM	Newcomers/Elmers Net, 146.67, Topic: Understanding Ground Effects on Signals
Mon Apr 8	7:00 PM	Classes for the Extra class license, Hamilton Co Communications Center—2377 Civic Center Dr
Tue Apr 9	7:00 PM	Board of Directors meeting at Westwood United Methodist Church –3460 Epworth Ave
Wed Apr 10	9:00 PM	Tech Talk, NCS Mike N8MRS
Sat Apr 13	10:00 AM 1:00 PM	Monthly mobile Foxhunt—Starting at the Mt Storm Park in Clifton—Setup begins about 9:30AM Brunch Bunch at Pepper Pod— Monmouth Street, 41071
Sun Apr 14	7:00 PM	Newcomers/Elmers Net, 146.67, Topic: A Little Antenna Theory
Mon Apr 15	7:00 PM	Classes for the Extra class license, Hamilton Co Communications Center—2377 Civic Center Dr Classes for Technician and General class license—Red Cross Building at 2111 Dana Ave
Wed Apr 17	9:00 PM	Tech Talk, NCS Dale, KC8HQS
Sun Apr 21	7:00 PM	Newcomers/Elmers Net, 146.67, Topic: Easter No Net
Mon Apr 22	7:00 PM	Classes for the Extra class license, Hamilton Co Communications Center—2377 Civic Center Dr Classes for Technician and General class license—Red Cross Building at 2111 Dana Ave
Wed Apr 24	9:00 PM	Tech Talk, NCS George N3VQW
Sun Apr 28	7:00 PM	Newcomers/Elmers Net, 146.67, Topic: Arduino and Amateur Radio

OH-KY-IN Membership for 2019

Well, it looks as if Spring is finally upon us! As I write this short blurb, tomorrow is the first day of Spring. It seems as if this was quite a long winter.

When Spring comes along, many OH-KY-IN activities come to mind – some include going to Hamvention, Field Day, Foxhunts, just to name a few.

That being said, please be sure to renew your membership if you haven't done so already. There are many ways to do so:

You can print an application using the address <http://ohkyin.org/wp/about-oh-ky-in/membership/membership-application/> and simply mail a check.

OR...you can use ANY credit card or PayPal using the secure server at the following address: <http://ohkyin.org/wp/about-oh-ky-in/membership/pay-membership-fees/>

Don't forget, we have the Lifetime Membership available as an option – this is an incredible way to support the organization, as well as make sure you never have to worry about renewing again!

If anyone has any questions, please feel free to contact me at KA3MTT@YAHOO.COM

73,
Nathan Ciufu, KA3MTT
OH-KY-IN Membership Chairman



***** NOTICE *****

The Newcomers and Elmers Net on Sunday evening is changing time, from 6:30 PM to 7:00 PM.

Please join the net every Sunday, now at 7PM

by Justin Patrick Moore, KE8COY

I'm pleased to announce we have a new book in the club library this month. *Exploding the Phone: the Untold Story of the Teenagers and Outlaws who Hacked Ma Bell* by Phil Lapsley. The book came out in 2013 and my wife and I each read it then. I even wrote a review of the book for a previous issue of the Q-Fiver. Before smartphones, before the Internet and before the personal computer, a misfit group of technophiles, blind teenagers, hippies, and outlaws figured out how to hack the world's largest machine: the telephone system. Ever since I was a teen and had heard about these "phone phreaks" I'd been fascinated by their stories. Until this book came out there wasn't a complete history of who they were, what they did, or how they did it. A lot of these guys were hams and some later became legit and went on to work for the telcos.

This past Winter Field Day I was hanging out with George Gardei N3VQW and Joe Maximetz KA2UYB. George and I were talking about books about hacking and I mentioned how much I'd enjoyed *Exploding the Phone*. Joe hearing me talk about the book piped up. It turns out Joe had been a phone phreak himself and was friends with a number of people in the book back in the day. Joe told me about how he would use a tape recorder with multi-frequency tones on it to explore the phone system and connect with other phreaks around the country. Too cool! Joe is also listed in the acknowledgments section of the book. Phil Lapsley had reached out to Joe while writing this history of a fascinating technical subculture, and now it can truly be said that Joe is in the history books. And because *Exploding the Phone* is such an excellent book, and because Joe is a member of Oh-Ky-In ARS it only seemed right that we should have this tome in our collection, so I grabbed a copy. I encourage anyone with an interest in the phone system, the early days of hacking and networking, and readers who enjoy well written narrative non-fiction to come check out the book and talk to Joe about his experiences exploring the empire of wires Ma Bell built.

Here is a brief description of the book:

"Starting with Alexander Graham Bell's revolutionary 'harmonic telegraph,' by the middle of the twentieth century the phone system had grown into something extraordinary, a web of cutting-edge switching machines and human operators that linked together millions of people like never before. Unfortunately for the telephone company, the network has a billion-dollar flaw. And once people discovered it, things would never be the same. Phil Lapsley's *Exploding the Phone* tells this story in full for the first time. It traces the birth of long distance communication and the telephone, the rise of AT&T's monopoly, the creation of the sophisticated machines that made it all work, and the discovery of Ma Bell's Achilles' heel. Lapsley expertly weaves together the clandestine underground of 'phone phreaks' who turned the network into the electronic playground, the mobsters who exploited its flaws to avoid the feds, and the counterculture movement that argued you should rip off the phone company to fight against the war in Vietnam...AT&T responded with 'Greenstar'...The FBI fought back, too...Phone phreaking exploded into the popular culture, with famous actors, musicians, and investors caught with "blue boxes," many of them built by two young phone phreaks named Steve Jobs and Steve Wozniak...The product of extensive original research, including exclusive interviews and declassified government documents, *Exploding the Phone* is a captivating, ground-breaking work about an important part of our cultural and technological history."—Provided by publisher.

Field Day 2019

The OH-KY-IN Amateur Radio Society will proudly be conducting its annual ARRL Field Day event on Saturday and Sunday, 22 and 23 June 2019 at our usual Mitchell Memorial Forest location. Setup will be on Friday, 21 Jun starting at 2pm (24 hours before actual operation). Please come on down to the park for a weekend full of amateur radio at its best! Field Day is a yearly operating event that starts at 2PM on Saturday and concludes at 2PM on Sunday.

As Field Day Chair I am honored that our Club conducts THE best Field Day operation in the area. With the hard work of so many of you throughout the years, planning each year's event gets a little easier every time. That's due to the fact that we've gotten so good at this that there is very little we need, or would like to change. So this year, we will once again go forward with our same planning as the last few years, but of course, it is an open discussion. Suggestions and comments are always welcome.

There are temporary issues (permitting and law changes) at Great Parks that almost made us find another location this year. I'm very happy to say that I have been assured that we WILL have our area. Guaranteed. I have been working with some great people at the Parks and they want us to have our event as much as we do and there are workarounds that they offered to make it work.

We will again be operating five stations:

SSB Station 1: 10,15,20,40,80M
Digital/SSB Station 2: 10,15,20,40,80M
CW Station, 20 and 40M
6 Meter/VHF/UHF Station
GOTA (Get on the Air Station)

We will also have demonstrations for our bonus points in Solar, Satellite/Digital/APRS and National Traffic System operations among others. If there is any amateur radio technology you would like to bring out to demo, this is the perfect place!

Field Day is a great annual event geared to veteran and beginner operators alike, and of all ages. Anyone, regardless of their skills are free to sign up for any station and there is always someone available to help you along. The GOTA station is a great place for those interested in amateur radio (but have not yet been licensed) to get introduced to the fun of what most often becomes a life-long hobby!

Come out and join us for a great time of fun, food and camaraderie. The annual Field Day Picnic will start at 6pm on Saturday with burgers, metts, brats, dogs, and snacks. Please bring a side dish or a desert to help build the feast. Bring your friends and family out to see what's going on and to join us for the fun! Also, please feel free to pitch a tent Friday and/or Saturday night and stay the whole weekend if you like...a good number of us have been doing it for years. There is nothing better than the sound of QSOs through the night having a duel with the crickets!

This year we will continue the development of our digital station with continued and increasing emphasis on the digital modes. This is a collaborative effort with lessons learned last year and new ARRL guidance this year. However, because of the greater focus on digital I need to make sure the SSB1 station is fully manned and operating the continuous 24 hours. We need people who are willing to work all hours of the night, so we need night owls!

I will have signup sheets available for all stations at the June Membership Meeting. If you would like to sign up and can't make the meeting, just contact me and I'll get you on the roster.

Visit the ARRL's website for a wealth of information on Field Day at: <http://www.arrl.org/field-day>

I will be sending out more info soon as we continue to develop this year's event.

Thanks and see you soon!

Eric, N8YC

March 5th 2019 Meeting Minutes

Prepared by George Gardei, N3VQW

Meeting started at 7:31 with pledge of allegiance

Visitors

Josh kw8d from FT Thomas

KD8ASQ recently upgraded to General

46 persons present

Health and welfare Announcements:

- Ted NC8V is back
- John N8JTP is back

Brag Sessions

Greg, KA8MQD attended ham fest

Bob WA6EZV – has the Jackal module up and running on his uBitx

Andrew K8AKC got tax refund--spent mostly on radio stuff

Cesi KD8OOB - ARISS SSTV event was big success

Business Meeting

Correction to minutes: George has received corrections – Minutes were accepted as amended
Membership report - 92 members – Members who haven't renewed yet are encouraged to do so

Treasure's Report – Was distributed to review

- Had nice donation that went in February,
- Not very many expenses in February.
- Kroger and Amazon donations were good

Silent key – Bryan Hoffman reported that Hank N8XX passed. He was member of QCEN, OHKYIN, P&G retired. Operated CW 99% of the time.

Gary KB8MYC - tech committee - everything working. Had two conversations on fusion

Tech committee meeting Thursday at 7:00 at Donato's in Bellevue

Classes - Mike KD8ZLB – Extra classes starts on Monday March 11th at Hamilton County Communications Center, 2377 Civic Center Drive, Forest Park at 7:00 PM K4BRI is the instructor
Tech and General classes starts Monday April 15th at 7pm at the Red Cross building for 5 weeks.

VE Testing on May 25th at 9am

Justin KE8COY made flyers for classes

Fox hunts and ARDF - March 30th, ARDF on foot style at Mt. Airy Forest, 10:00 am

This year's championships in Raleigh NC, Olmstead National Forest

Library – we got books

Membership renewals - renew if not renewed yet

Tech Talk - Bruce looking for sub tomorrow at 9

Newcomers and Elmers - Robert not present.

Winlink Wednesday – send ED, K8EAF a Winlink message!

Digital - Learned how to unbrick a bricked DMR radio. Meetings are every 4th Tuesday of the month at 7:00 pm

Website - Library integration to website mentioned.

QCEN - monthly meeting will be March 15th 7:00 at Red Cross - NVIS antennas will be discussed.

ARES - Brian - March 10th 0200 - time change this weekend. NOOOOOO!!!!!!!!!!

- Next meeting March 19th at the ROC
- March 20th - State wide tornado awareness week
- March 20th 9:50 AM statewide tornado drill. SKYWARN on 146.88
- Training ARRL EC001 class is now a free class. 9 week ARRL\training listed
- FCC March 1st, CORES (COMmission REgistration System) license website - have to go to their new website to register your FRN to get put into the system

Brunch Bunch- this Saturday at O'Charleys on Crookshank.

Brian, K4BRI - presented award to 2018 Young Ham of the Year: Julianna DiBenedetto KE8IUU

Cesi, KD8OOB - presented Meritorious Service Award present to John Phelps N8JTP making sure our bellies are well filled as we operate the radios.

Old Business

Audit Commit Report - committee carefully went over last year's records, selected random months. Everything was well kept, orderly and accurately tied together. Report was already accepted
NVIS day - Jerry and Michael - Location is Ross Park. Area 1 shelter. April 27th 10-4. lunch will be served

CFF Bikeride - Sat Sept 14th, Mike and Ryan are leading. Volunteers needed. Lunken and Northern KY

Hamfest - Gary - we are still in scheduling process. Waiting for confirmation from Aiken on Sept 21st.

1940's weekend - No information

Maker Fair - April 13th 10-5 at museum center.

New Business

Robert N8JMV

- Milford testing at 6:00 this weekend free
- Milford Hamfest June 15th, Owensville - southwest Ohio DX Inaugural Convection

Field Day - working on location for field day. Hopefully we can be back. We need a final plan by March 23rd

Business Meeting ended 8:15 pm

Cesi KD8OOB did a fascinating presentation on SSTV

Meeting concluded at 9:04pm

Split the Pot - Ryan AC8UJ won \$100

Brunch Bunch

The next Brunch Bunch will be held Saturday, April 13th, at 1pm. The location for April is **Pepper Pod Restaurant in Newport, Kentucky. Pepper Pod is located at 703 Monmouth Street (US 27), 41071. It is on the corner of Monmouth Street and East 7th Street.**

You can take a look at the some of the menu as well as a map at: www.openmenu.com/restaurant/49f710e0-55b3-11e6-807c-00163eeae34c (you may need to copy and paste into your browser)

Pepper Pod offers a wide range of standard American comfort meals in an old-school interior.

Remember that the Brunch Bunch always meets the second Saturday of every month at 1pm at a location to be announced each month. If you can't join us this month, maybe you'll be available to join us in the months ahead.

I'm always looking for suggestions on what restaurant you think might be a good place for the Brunch Bunch to visit soon.

73,Bruce, N8BV



THE RADIOPHONIC LABORATORY: Eavesdropping with Scanner

by Justin Patrick Moore, KE8COY

Who doesn't like listening in to a conversation being held by two people nearby? Who doesn't take secret delight in overhearing a snippet of information being mouthed from across the room? Anyone who has enjoyed monitoring local police, fire and utility frequencies, and even cell phone conversations before they were encrypted knows the secret pleasure that comes from electronic eavesdropping. Scanner radios, SDRs and even the humble Baofeng can offer the discrete listener hours of aural voyeurism. Radio traffic picked up during these sessions of signal intelligence and information gathering can be recorded with ease via a simple setup; and what is received and recorded may be transformed and put to artistic purposes.

This is exactly the method used by Robin Rimbaud, a British electronic musician born in 1964 who works under the name Scanner because of his use of the device in his early live performances and recordings. Tapping the airwaves, he mixed the indeterminate radio and cell phone signals into the electronica he was making, and by doing so found himself a name.

What is being picked up on the scanner will always be something evocative of the time and place where the frequencies were scanned. It is site specific. It is time specific. The people on the other end don't necessarily know they are being listened to. They didn't consent to be eavesdropped on, except by pressing the push to talk button. They didn't sign a waiver allowing their voices to be recorded, mixed with music, and preserved for posterity on vinyl and CD.

Robin Rimbaud, as Scanner wasn't interested in getting their permission. What he was interested in was avant-garde literature, cinema and music. While earning a degree in Modern Arts at Kingston University in Surrey, England he formed the music group The Rimbaud Brothers with another bloke named Tony Rimbaud who was also a student (though they weren't actually related). They started releasing cassette tapes in the early 80's, and later turned into a trio when Chris Staley joined up, becoming Dau Al Set.



These cassette tapes were to prove important. The *Peyrere* compilation tape he put out in 1986 featured the work of Nurse with Wound, Derek Jarman, Current 93, Coil and Test Dept, cinching his alignment with the British experimental music scene. All these tapes prepared him for his work as curator of the Ash International record label, a subsidiary label of Touch Music out of London. His first debut as Scanner was released on Ash International in 1992.

This first self-titled Scanner album contains just under an hour of intercepted cell phone conversations of unsuspecting callers captured by his police scanner. As such, some of the material Robin Rimbaud picked up and put to record is enough to make you blush. I confess that when I first heard of police scanners as a thirteen year old skateboarding punk rocker the idea of being able to listen in to a juicy cell phone call was an exciting prospect. As was the idea of being able to hear the cops come bust us for skating at a certain site on the radio and leave before they got there.

Robin Rimbaud got into scanning on accident. He says, “As for the scanner device itself, it was purely by chance that I discovered it, since a friend was part of a hunt saboteur group and they would use it to listen in to the local police,” Rimbaud said. “I immediately saw the potential and intrigue of being able to access these private spaces and incorporate them into these exploratory soundscapes I was producing at the time. I was especially drawn to the fact that the recordings were so intimate, so clear, yet abstract in nature. One had to imagine who these people were you [are] overhearing, where they were, what kinds of lives they led, although the nature of their conversations often clearly explained this! So I began using these live voices and recordings inside the music I was producing and adopted the name of the machine I was using to create the work.”

The window of opportunity for tapping into this telephonic underworld was short-lived however. Back in the day when those rigs were analog the ability to sit on the freqs used by the telcos was a built in feature. Now it is illegal to monitor cell calls (unless you happen to work for the NSA). The companies making the scanners were under fire from the telcos. The telcos were putting pressure on Congress. So when the bill was sent up to Capitol Hill a new law was passed prohibiting scanners sold after a specified date from receiving the frequencies allocated to the Cellular Radio Service. Later an amendment was added to make it illegal to modify radios to receive those frequencies. There are Canadian and European unblocked versions available, but it is illegal to bring them into the U.S. Does that mean it is illegal to build your own scanner radio that can pick up cell calls...? Well, all that’s moved to digital now anyways and would be difficult to pick up (unless you happen to work for the NSA).

What about cordless landline phones? Frequencies used by early cordless phones at 43.720–44.480 MHz, 46.610–46.930 MHz, and 902.000–906.000 MHz are still around in some people’s homes and might be picked up by scanners but it’s still illegal to do so. And with all these scanners around most cordless phone makers moved their sets up to 2.4 GHz systems that make use of spread-spectrum modes which adds another layer of security.

The idea of listening in to what others consider private conversations brings us into the realm of ethics. Are radio listeners being nosey, butting their heads where they don’t belong? I think it is a mistaken notion that radio communication privacy can be achieved by declaring certain radio transmissions illegal to monitor and banning radio receivers capable of receiving ‘prohibited’ transmissions. This belief is rooted in a common misconception about the public nature of radio waves themselves. Courts have held that there is no privacy implied while transmitting on the public airwaves. To really eavesdrop in the smartphone centric world of today it might be better to be able to intercept text messages; hypothetically speaking of course. Texting isn’t my favorite thing, so why anyone (other than the NSA) would want to read a bunch of emoji’s is beyond me, lol.

Yet I do understand the desire to listen in, to gather intelligence, and to monitor, to eavesdrop. It can be exciting. Some of what you can grab off the air is just plain mind boggling. Robin Rimbaud understands this as well. He continued to release music on the Ash International label, working closely with Mike Harding of Touch on the first dozen releases. These included *Scanner²*, *Mass Observation*, *Blind*, and *Runaway Train*. [Some of these can be listened to on the artist’s bandcamp site: <https://scanner.bandcamp.com/>]

All have their merits but this last recording is a real gem, and was already famous when it was in circulation among railway operators before it got released to the experimental music crowd. The *Runaway Train* album consists of the unedited, un-doctored real-time recording of the radio contact between Alfie, controller of the railway line in New Brunswick, Canada and the engineer Wesley, on March 9, 1948, as the engineer lost control of his train to its ultimate derailment. This entire drama was taped as it happened and is insane with tension. While his colleagues work calmly and professionally to prevent a derailment, Wesley bravely remains on board. 55mph becomes 70mph. The dialogue between Wesley, and Alfie, grows charged as each minute passes. As the train hurtles on threatening the unsuspecting communities it passes through, as well as its crew. At 95mph, with a doctor and ambulance standing by, Wesley faces disaster. Suddenly the line goes dead. Can Wesley survive?

This tape had been circulating among CN and VIA Rail employees and a copy eventually reached the father of a man named Brian Damage. Brian got the tape from his dad and shared it with his friend Robin Rimbaud

who was looking for unusual field recordings to put out on his Ash International label. Ash released it in 1994 (Ash 1.9) as a one-sided record in an edition of 500 copies, with an additional 500 pressed the following year. [You can listen to this one yourself on bandcamp at: <https://phycus1.bandcamp.com/album/runaway-train>]

Listening to this recording now, over seventy years after it was first captured off the radio is still a dramatic edge-of-your-seat listen. On a psychological level, it showcases the way humans are predisposed to focus in on the tragedy of others, to tell stories of death, demise, and destruction. Just the other day at the time of this writing I turned on my radio to see what traffic I could catch from local police and fire departments after a plane crashed into a home in Madeira. The same thing is at work when I slow down to look at an accident while driving. Our radios and scanners simply extend the reach of our observation. They allow us to listen in to the drama of human life as it unravels around us in real time.

The weird thing is that for the people involved the tragedy continues long after our scanners are turned off. In the case of train engineer Wesley, even though he walked away from the accident with his life intact, his 43 year career was over, and the pension that had been promised him was in limbo. The whole aftermath of his story was documented in the press and collected by Daniel Dawdy on the webpage: <http://www.cwrr.com/Lounge/Feature/runaway/>

Now that I'm not reasoning like a teenager anymore my motivations for monitoring radio frequencies are different. It isn't to evade the police. For one, cops and skaters get along better these days and there are designated spots where it is legit to have a street session. For another it's fascinating to learn how radio traffic is handled during small and large emergencies. As a ham learning how to communicate clearly on the air is a skill that could come in handy if ever my skills are needed for the greater good of the community. Listening in is one way to develop that skill.

Additional references:

<http://www.clotmag.com/robin-rimbaud-aka-scanner>

<https://electronicsound.co.uk/product/issue19pdf/>

April 2019 DX Spots de KA3MTT

Sun	Mon	Tue	Wed	Thu	Fri	Sat
HM - North Korea April 1st only 	1 8Q7DM - Maldives Thru 4-7 ----- VK9N - Norfolk I Thru 4-14 ----- C5DL - Gambia thru 4-15	2 V47JA - St Kitts & Nevis thru 4-22 ----- E51 - South Cook I thru 4-11	3	4	5	6 HB0 - Liechtenstein thru 4-13 
7 XT2 - Burkina Faso thru 4-26 	8	9	10	11	12	13 9G5GS - Ghana Thru 4-20
14 J20DX/p - Djibouti Thru 4-20 ----- TF - Iceland thru 4-22	15	16 KH8 - American Samoa thru 4-22 ----- T32AZ - East Kiribati thru 4-23	17	18	19	20
21 E51DLD - South Cook Is thru 4-28 ----- FO - French Polynesia thru 5-3	22	23	24	25	26	27 XV9XX - Vietnam Thru 5-4 ----- TO19A - Reunion Thru 5-8
28	29	30 GJ6EFW - Jersey Thru 5-5 				

OH-KY-IN Amateur Radio Society

Regular monthly meetings are held the first Tuesday of each month at 7:30PM local time at the St Bernard Recreation Hall, 120 Washington Avenue (corner Washington & Tower Aves) in St Bernard, just east of Vine St. Please come in the doors at street level, facing the high school. Visitors are ALWAYS welcome!

The next meeting of the Oh-Ky-In Amateur Radio Society will be Tuesday, April 2nd at 7:30 PM

Program:

Antenna Modeling By Brian, K4BRI

OH-KY-IN Amateur Radio Society

Q-FIVER Editor
Brian DeYoung, K4BRI
6901 Backus Drive
Alexandria, KY 41001

Phone: (859) 635-3095
Web: www.ohkyin.org
E-mail: k4bri@arrl.net

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