

Q-FIVER



THE OFFICIAL NEWSLETTER OF THE OH-KY-IN AMATEUR RADIO SOCIETY
CINCINNATI, OHIO — WWW.OHKYIN.ORG

Calendar of Upcoming Events

Monday	August 1 @ 9:00 PM	SSTV Net (146.670 Repeater)
Tuesday	August 2 @ 7:30 PM	Club Meeting (Zoom & Lockland Church of the Nazarene)
Wednesday	August 3 @ 9:00 PM	Tech Talk Net (146.670 Repeater)
Monday	August 8 @ 9:00 PM	SSTV Net (146.670 Repeater)
Tuesday	August 9 @ 7:30 PM	Board of Directors Meeting (same Zoom info as club meeting)
Wednesday	August 10 @ 9:00 PM	Tech Talk Net (146.670 Repeater)
Monday	August 15 @ 9:00 PM	SSTV Net (146.670 Repeater)
Wednesday	August 17 @ 9:00 PM	Tech Talk Net (146.670 Repeater)
Monday	August 22 @ 9:00 PM	SSTV Net (146.670 Repeater)
Wednesday	August 24 @ 9:00 PM	Tech Talk Net (146.670 Repeater)
Monday	August 29 @ 9:00 PM	SSTV Net (146.670 Repeater)
Wednesday	August 31 @ 9:00 PM	Tech Talk Net (146.670 Repeater)

OH-KY-IN Repeaters

146.670 (-) Clifton
146.625 (-) Edgewood (Fusion)
146.925 (-) Delhi (Fusion)
443.7625 (+5)
All repeaters require a 123.0 Hz CTCSS (PL) tone.
APRS on 144.390 MHz
K8SCH-10 Edgewood WIDEn (off-air)
Packet on 145.010 MHz
K8SCH-7 Digipeater (off-air)

Meeting Information

Our monthly club meeting will be held at Lockland Church of the Nazarene (335 W. Wyoming Ave.). We will continue to offer Zoom video conferencing as an option. Please join us at 7:30 PM Eastern time each first Tuesday of the month. The Zoom call will open at about 7:20 PM for you to join. The passcode is 146670

<https://zoom.us/j/996062859>

If you are unable to join online, you may join by telephone at (301) 715-8592 with a meeting code of 996 062 859 and passcode of 146670. Long distance rates will apply.

Life Members

John Phelps	N8JTP
Kenneth E Wolf	N8WYC
John W Hughes	AI4DA
Karl R Kaucher	KK4KRK
Fred Schneider	K9OHE
Dan Curtin	KF4AV
Steve Weeks	AA8SW
Kelly Hoffman	K8KAH
Jerry Shipp	W1SCR
Bob Craig	K8RC
Mick Cook	KD8IOQ

Meeting Location

The board has decided that we will continue meeting indefinitely at Lockland Church of the Nazarene, located at 335 West Wyoming Avenue in Lockland. It's right off I-75 at exit 12 (the Reading/Lockland exit southbound and the Davis St./Lockland/Reading exit northbound). Enter through the glass door by the mailbox under the awning. Be aware that there are about 5 steps down into the meeting room. Thanks to Steve N8PUP for making this facility available to the club for our meeting! We will also continue to offer Zoom for those wishing to join us online. If you have any symptoms of illness, please join us online to protect other club members.



Brunch Bunch

by Bruce Vanselow, N8BV

The next Brunch Bunch will be held Saturday, August 13th, at 1pm. The location for August is Jim & Jacks on the River. Jim & Jacks is located at 3456 River Road, 45204. Jim & Jacks is on the north side of River Road.

“This great atmosphere bar is the place to enjoy drinks, delicious food, pizza and people who want to have a good time.”

For a look at the menu as well as a map, go to: www.jimandjacks.net

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

73, Bruce N8BV

Support OH-KY-IN by Shopping

Of course we appreciate your membership dues and all of the ways you give time and energy to the club, but did you know you can also support OH-KY-IN just by doing things you already do?

Kroger Community Rewards is a great source of income for the club and requires no effort! Visit <http://www.krogercommunityrewards.com/> and set us as your charity. We are organization **QY352**.

You can also support us through Amazon Smile. In the first quarter of 2022 (January 1st through March 31st), we earned a \$30.23 donation from Amazon Smile!

Contact Bruce N8BV for details about either program.

July, 2022 Meeting Minutes

...would normally be here, but instead they will be published in the September Q-Fiver. Stay tuned!

Photo by Ryan Owens AC8UJ

Red White & Blue Ash 2022

It's in the bank! What is in the bank you ask? The proceeds from working our beer booth at this year's Red White & Blue Ash. \$2003.46 that is!!

This year we had several more workers than we've had in the past. Because of that, workers were able to take a break when needed as well as able to get something to eat or drink. Also due to the extra help, it made it feel like we were not quite as busy at the end of the night as we are used to in the past.

The tips were good again this year. We brought in \$531.50 in tips alone. For us to have tips like that, we must be doing something right! And a check in the amount of \$1,471.96 was received for our percentage of what money was turned in for our efforts. That is a total of \$2,003.46 added to the club treasury.

A BIG Thank You goes out to the following:

Dennis	KD8ILY	Rocky	KE8DZS and wife Janice
Mike	KD8ZLB	Mike	AC4XS
Ted	NC8V	Eric	KE8BNZ and wife Robin
Brad	KE8JTM	Mike	KD8TMO
Drew	KD8JTL	Bruce	N8BV
Devin	KE8PEQ		

We couldn't have done as well without you!!!! You can bet that I'll be in touch with you again next year!

73, Bruce N8BV

Harvest Home Fair — Big 6 Booth

The Harvest Home Fair is just around the corner and the OH-KY-IN Amateur Radio Society will again run the Big 6 booth. The Fair is scheduled for Friday, September 9th, Saturday, September 10th and Sunday, September 11th. The booth is to be open all hours that the Fair is in operation. That's 5pm – 11pm on Friday, 12pm – 11pm on Saturday and 12pm – 8pm on Sunday.

If you are not familiar with how the Big 6 booth works, no worries, it's not hard and I can show you how it works in just a few minutes.

We'll again need quite a few workers to pull this off, so tell your friends and other club members. The more players we can get to play the game results in more money for our treasury. Last year we received more than \$2,200 for our efforts.

It's not too early to sign up, send me an email at N8BVbruce@gmail.com or give me a phone call at 513-251-1555.

73, Bruce N8BV



Photo by Ryan Owens AC8UJ

Techno-scribbles from An Old Man

Bob Craig, K8RC

There is a DXCC mode certificate called “Digital” that is awarded for contacts using the computer modes like FT8, packet, PSK31, AMTOR, PACTOR and many others. The grandfather of them all is RTTY.

Radio TeleTYpe uses a telegraphy code invented in the 1870s by Émile Baudot. Baudot code, as implemented, consists of a single bit called a start bit that is always a zero, known as a space, followed by 5 data bits and a stop bit, always a 1 called a mark. The start and data bits are of equal length but the stop bit is at least 1.5 times longer but can be of any longer length, today usually twice as long (if you stopped typing entirely you would be transmitting a continuous stop bit). The most common data speed is 45.45 bits per second, also known as 60 words per minute. Forty-five bits per second as compared to the millions of bits per second of most internet connections!

By the way “bits per second” is usually referred to as the baud rate, baud being a contraction of Monsieur Baudot’s last name.

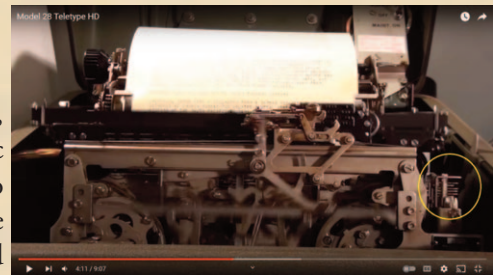
Originally, Baudot was encoded & decoded by an electro-mechanical device called a teleprinter. To transmit RTTY, amateurs use FSK, Frequency Shift Keying. A continuous carrier is shifted between 2 frequencies 850hz apart corresponding to whether the bit is a one or a zero. Originally, this was done by switching a capacitor or inductor in and out of a VFO circuit. As VFO stability improved over the years a 170hz shift became standard. Even later, as the carrier and opposite sideband suppression of SSB transmitters improved, AFSK, Audio Frequency Shift Keying, became common. AFSK uses a pair of switched audio tones fed into the mic circuit of a SSB transmitter which, if properly adjusted, transmits a signal indistinguishable from FSK.

For receive, audio from the receiver was fed to a device called a terminal unit or TU which converted the warbling audio to a serial stream of electrical current pulses that actuated an electromagnet in the teleprinter. Depending on the sequence in time of the 5 pulses, mechanical bits were pulled or pushed into positions that, when the stop bit arrived, would print the appropriate character on paper.

This YouTube video shows the inner workings of a Model 28 Teletype machine. Note the 5 vanes in the lower right that shift with the bits of the incoming characters.

https://youtu.be/P1BYGNj-L_Y?t=245

By the way, “Teletype” was once a registered trademark, now expired, for the teleprinter machines manufactured by the Western Electric division of the American Telephone & Telegraph Co. which was also known as “The Bell System” or “Ma Bell” or just “The Telephone Company.” AT&T is still in business providing cellular phone and media services.



At one time, Baudot was the only code, other than Morse, that was authorized for use by amateur radio. Before the common use of personal computers, you had to actually own a teleprinter to operate RTTY. I owned several over the years. A Model 15, a Model 19 and, finally, a Model 28ASR all inhabited my shack. I used those machines to earn a DXCC certificate that was then labeled “RTTY”

I built my first personal computer, a Heathkit H8, in the late 1970s. Its limited computing power could replace only the teletype machine itself with the code I wrote. Audio from my receiver still had to be processed by the TU into a receive data stream. The tiny current of the transmit data out of the computer had to be processed by external circuits to drive the transmitter.

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Today, a fast computer and my Flex radio, itself essentially a computer, do everything.

One last thing. The serial number on my RTTY DXCC certificate is #317. This morning (July 20) the Awards desk at ARRL issued Digital DXCC #8845.

73,

An Old Man

"An Old Man" is the pen name of Bob, K8RC, not to be confused with The Old Man, Hiram P. Maxim, W1AW.



Photo by Eric Fischer, CC BY 2.0, via Wikimedia Commons

◆ Teletype Model 28 at the New York Transit Museum

Newsletter Submissions

Please send any submissions you would like included in upcoming newsletters to Ryan, AC8UJ. All content is welcome! You can e-mail content to him at his callsign at arrl.net. Please send all content either as plain e-mail text (attach any photos or graphics) or as a PDF file. Depending on the spacing needs of the particular issue, Ryan may reformat your content and adjust the layout. Because of this, if you send a PDF, please also include any graphics used as attachments.

Club E-Mail Lists

Do you get our club e-mails? Do you get them in a timely manner? The club maintains two separate mailing lists on Groups.io. There is the mailing list for club members, called "OH-KY-IN Amateur Radio Society Members" with an address of ohkyin@groups.io. If you are a member of the club, you should belong to this list. This list is restricted to only current members. In the "Files" section of this group, you can find the membership directory as well as various other information which is a benefit of club membership.

Separate from that list, we also maintain a list called "OH-KY-IN Amateur Radio Society Public Information Group," which is for NON-members to which we wish to broadcast public information and announcements (think ARRL officials, leadership of other area clubs, etc.). If you are a current member of OH-KY-IN, there is little if any reason for you to belong to this mailing list. This group contains far fewer recipients than the member's list mentioned above. It also does **not** grant access to information which is a privilege of membership.

We've also heard comments from some members about not receiving club e-mails in a timely manner. For example, perhaps you receive a reminder of an event after the event has passed. This is almost always the result of settings the recipient has configured in Groups.io. If you think you are not receiving club e-mails timely, do the following: Log in to your Groups.io account. Select the OH-KY-IN group/subscription and then, on the left hand side, click the "Subscription" button. If you don't see a "Subscription" button on a lefthand menu, you may need to click the "menu" icon at the bottom of the screen (for smaller screens). On the "Edit Subscription" screen, make sure your "Email Delivery" option is set to "Individual Messages" and not one of the other options. Any of the other options will result in either missed or delayed e-mails.

Useful URLs:

Members list: <https://groups.io/g/OHKYIN>

NON-Members list: <https://groups.io/g/OHKYINPublic>

Edit subscription for members list: <https://groups.io/g/OHKYIN/editsub>

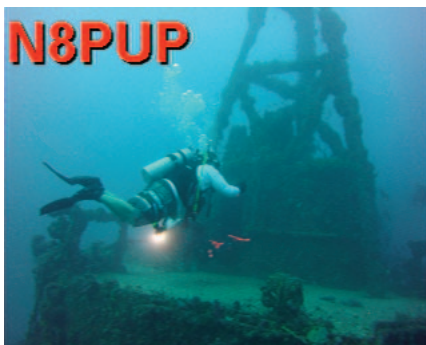
Edit subscription for non-members list: <https://groups.io/g/OHKYINPublic/editsub>



Photo by Onlineprinters on Unsplash

OH-KY-IN SSTV Net Samples

Here's a sample of the images you could be receiving if you tuned into the weekly SSTV net on the 146.670 repeater, hosted by Devin KE8PEQ. The net meets every Monday night at 9:00 PM Eastern time. No special equipment is required. If you have a 2 meter receiver and a computer or smart phone, you can receive images. If you don't know how, check in to the weekly Tech Talk net Wednesdays at 9:00 PM Eastern and ask for help. Hope to hear you all on the nets!



Please renew your membership, if you haven't already



Committee Chairs & Appointments

Technical Operations Gary Coffey KB8MYC
 ARPSC Representative Jerry Shipp W1SCR
 Volunteer Examiners Brian DeYoung K4BRI
 QCEN Representative Pat Maley KD8PAT
 Membership Nathan Ciufu KA3MTT
 Fundraising Bruce Vanselow N8BV
 Education Michael Niehaus KD8ZLB
 Repeater Control Ops Mgr. . . Bruce Vanselow N8BV
 PIO & SSTV Net Mgr . . . Devin Spielman KE8PEQ
 Librarian Justin Moore KE8COY
 Q-Fiver Editor Ryan Owens AC8UJ (interim)
 Field Day Eric Neiheisel N8YC
 Historian Dale Vanselow KC8HQS
 Fox Hunters Dick Arnett WB4SUV
 Equipment Manager . . . Andrew Cornuelle K8AKC
 Webmaster Rocky McGrath KE8DZS
 Silent Key Bryan Hoffman KC8EGV
 Tech Talk Net Manager Bruce Vanselow N8BV
 K8SCH QSL Manager Bob Frey WA6EZV
 TV/RFI Dick Arnett WB8SUV

OH-KY-IN Officers

President Ryan Owens, AC8UJ
 Vice President Cesi DiBenedetto, KD8OOB
 Secretary Steve Crase N8PUP
 Treasurer Brad Hast K8JTM
 Director Drew MacDonald KE8JTL
 Director Bruce Vanselow, N8BV
 Director Dennis McGrath, KD8ILY
 Trustee Bruce Vanselow, N8BV

Consider a Donation to OH-KY-IN

Did you know that OH-KY-IN ARS has been recognized by the Internal Revenue Service as a 501(c)(3) charitable organization? That means anyone who itemizes on their Federal return can take a charitable deduction for a contribution to OH-KY-IN, as long as it qualifies under the general rules applicable to all other charitable contributions (for example, the contribution must be in cash, or other property which the organization has agreed to accept; the value of volunteered services is not deductible). Membership dues, such as the cost of a life membership, may even be deductible; consult your own tax advisor for details if considering that. Posthumous donations by Will or by naming the organization as beneficiary of a financial account are also welcome.

DX Spots - August 22

Sun	Mon	Tue	Wed	Thu	Fri	Sat
V4 - St Kitts & Nevis thru 8-18 	1 5R8LH - Madagascar thru 9-9 	2 H44MS - Solomon Is thru 9-21 	3	4	5 3B9 - Rodrigues I Thru 8-9 	6
7 A35JP - Tonga thru 8-20 	8 8Q7AG - Maldives Thru 8-20 	9 S79 - Seychelles Thru 8-23 	10 JW - Svalbard thru 8-16 	11	12 D2TX - Angola thru 8-16 ----- J3 - Grenada thru 8-19 	13
14	15	16	17	18	19	20 V47FWX - St Kitts & Nevis thru 8-31 
21	22	23 ZA - Albania thru 8-23 	24	25	26	27
28 A35JP - Tonga Thru 9-23 	29	30	31			

Prepared by Nathan Ciufu, KA3MTT

Please remember to **renew** your membership!

We need all of you to keep OH-KY-IN going strong!



OH-KY-IN Amateur Radio Society is one of the leading amateur radio organizations in the Cincinnati, Ohio area and has been for most of its 50-plus year history. We are a 501(c)(3) nonprofit organization dedicated to the advancement of all things radio.

No matter the amateur radio interest, OH-KY-IN members are involved.