

# Q-FIVER

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



## Hamfest 2019 Is In the Books

Our 2019 hamfest has come and gone and it was a great success. We had great attendance and plenty of sellers to have something for everyone. Our attendance this year was in excess of 250 paid admissions and we were able to contribute almost \$1,300 in profit to our bottom line.

This event could not take place without lots of help. Among those were:

Ted Morris, NC8V & Justin Moore, KE8COY who did the PR and letter writing

Tony Toll, AB8LV & Dennis McGrath, KD8ILY for handling the facility set up

George Gardei, N3VQW & Lynn Ernst WD8JAW for handling the parking and flea market

Michael Sein, KD8SOH & Nathan Cuifo, KA3MTT for handling admission and selling memberships

Fred Schneider, K9OHE, Bob Frey, WA6EZV, and many others for helping with set up and tear down.

Our annual hamfest is a great way to give back to the ham radio community and get area hams together. Hopefully this tradition will continue in 2020.

*Gary, KB8MYC*



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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](mailto: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

Kenneth E Wolf N8WYC

John W Hughes AI4DA

Karl R Kaucher KK4KRK

Howard Hunt NG8P

Fred Schneider K9OHE

Roger Higley W8CRK

Dan Curtin KF4AV

Steve Weeks AA8SW

Kelly Hoffman, K8KAH

Cindy Shipp, KB8WEI

Jerry Shipp, W1SCR

## 2019 Committee Chairs and Appointments

Newcomers/Elmers Net..... Robert Gulley K4PKM  
 Technical Operations Group .....Gary Coffey KB8MYC  
 ARPSC Representative .....Jerry Shipp W1SCR  
 Volunteer Examiners ..... Brian DeYoung K4BRI  
 QCEN Representative..... Pat Maley KD8PAT  
 Membership .....Nathan Ciufo KA3MTT  
 Fundraising ..... Bruce Vanselow N8BV  
 Education .....Michael Niehaus KD8ZLB  
 Repeater Control Ops Mgr..... Bruce Vanselow N8BV  
 PIO ..... Justin Moore KE8COY  
 Librarian ..... Justin Moore KE8COY  
 Digital Group .....Jerry Shipp W1SCR

Q-Fiver Editor ..... Brian DeYoung, K4BRI  
 Field Day ..... Eric Neiheisel N8YC  
 Historian ..... Dale Vanselow KC8HQS  
 Fox Hunters ..... Dick Arnett WB4SUV  
 Equipment Mgr .....  
 WebMaster ..... George Gardei N3VQW  
 Silent Key ..... Bryan Hoffman KC8EGV  
 Tech Talk Net Mgr ..... Bruce Vanselow N8BV  
 K8SCH QSL Mgr ..... Bob Frey WA6EZV  
 TV/RFI ..... Dick Arnett WB4SUV  
 HamFest..... Gary Coffey KB8MYC

Yes indeed there will be a foxhunt in October.  
 Come try it—Saturday, Oct 12th (the second Saturday)  
 Setup begins about 9:30 with the first starts at 10AM  
 Mt Storm park in Clifton

## October 2019 Calendar

Tue Oct 1	7:30 PM	Club Meeting in St Bernard— <a href="#">Safety by Gary Coffey KB8MYC</a>
Wed Oct 2	9:00 PM	Tech Talk, NCS Robert K4PKM
Sun Oct 6	7:00 PM	Newcomers/Elmers Net, 146.67, Topic: <a href="#">Getting Involved on the Air</a>
Mon Oct 7	7:00 PM	Technician and General classes at the Red Cross Building on Dana Ave
Tue Oct 8	7:00 PM	Board of Directors meeting at Westwood United Methodist Church –3460 Epworth Ave
Wed Oct 9	9:00 PM	Tech Talk, NCS Mike N8MRS
Sat Oct 12	10:00 AM 1:00 PM	Foxhunt—Mobile Foxhunt starting from Mt Storm park in Clifton—setup begins about 9:30AM Brunch Bunch at <b>Christine's Casual Dining</b> <b>5770 Harrison Avenue, 45248.</b>
Sun Oct 13	7:00 PM	Newcomers/Elmers Net, 146.67, Topic: <a href="#">Antenna Myths and Misunderstandings</a>
Mon Oct 7	7:00 PM	Technician and General classes at the Red Cross Building on Dana Ave
Wed Oct 16	9:00 PM	Tech Talk, NCS Dale, KC8HQS
Sat Oct 19	9:00 AM	VE Test session—Red Cross Building on Dana Ave
Sun Oct 20	7:00 PM	Newcomers/Elmers Net, 146.67, Topic: <a href="#">Traffic Handling</a>
Wed Oct 23	9:00 PM	Tech Talk, NCS George N3VQW
Sun Oct 27	7:00 PM	Newcomers/Elmers Net, 146.67, Topic: <a href="#">Computer Control of Your Radio</a>
Wed Oct 30	9:00 PM	Tech Talk, NCS Rick KD4PYR

## Repeater Update

At the last club meeting we discussed the current issue with the 146.670 repeater. After more testing we have confirmed that we have a critical issue with the feed line that is going up the tower. If we want this repeater to function as it has in the past it is time to replace the feedline. This will be a huge financial undertaking for the club.

The current hardline is approximately 700 feet long and is 7/8" hardline. It was installed by the club over 20 years ago. The average lifespan of hardline on a tower such as WLWT is 10 to 15 years. As stated above, this is a major cost and cannot be accomplished overnight. While planning and fundraising are taking place the technical committee is looking at some alternative to keep the repeater on the air in some fashion. Please stay tuned for updates as they become available.

*Gary, KB8MYC*

## Brunch Bunch

**The next Brunch Bunch will be held Saturday, October 12th, at 1pm. The location for October is Christine's Casual Dining in (Dent) Green Township. Christine's is located at 5770 Harrison Avenue, 45248. Christine's is in a building that once was a Pizza Hut. It is located in the Manchester Plaza in the parking lot near Harbor Freight. "I started working in the food service industry and soon realized I wanted my own restaurant. I worked hard for 13 years at a restaurant where I met a lot of wonderful people. While learning the ins and outs of the restaurant business, the opportunity came and I took advantage of it and that's how Christine's Casual Dining was born." For a look at the menu go to:**  
**[www.christinescasualdining.com](http://www.christinescasualdining.com)**

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: The Lunar Phases of St. GIGA

by Justin Patrick Moore, KE8COY

Before Sirius XM was launched St. GIGA existed in an orbit of its own, an orbit that broadcast its content in harmony with the movement of the Pacific tides. The Japanese company became the first Satellite Digital Audio Broadcast Corporation formed as a subsidiary of the satellite TV company WOWOW. Transmission tests commenced on November 30, 1990 and regular transmissions started at the end of March, 1991. The company adopted a commercial free broadcasting model but to listen to St. GIGA you needed a subscription. The subscription was worth the money though, because the soothing content of their programs was like nothing else before or since. With a receiver set to 11.8042 GHz the pioneering satellite radio station known as St. GIGA took listeners on a gentle journey of ebb and flow.

When parent company WOWOW decided to expand into the realm of radio they knew they would need some help. As business executives they were all in agreement that they weren't cool and knew nothing about music. To come up with the name they solicited a poll to everyday "persons on the streets" and St. GIGA was selected. Yet they remained in the dark about what to put on the air. They were in need of a creative director to format the content of the satellite service and the searchlight landed on Hiroshi Yokoi. Yokoi had just worked on the popular J-Wave FM station founded in 1988 and which still broadcasts today on 81.3 mhz in Tokyo.

Yokoi was considered an innovator in the field, as was J-Wave. J-Wave's slogan is "The Best Music on the Planet," and the programmers aren't mere DJs, they are known as "navigators" or *nabigētā*, and they guide listeners on voyages of discovery. J-Wave's music could be considered to be the equivalent of top 40 but one of their innovations was the use of hundreds of different jingles to separate programs from commercials. These jingles are played at the same decibel level and are variations on a single melody; the jingles give the station a unique sonic signature and identity. In 1994 J-Wave also moved to being simulcast via satellite and some of its programs became syndicated on various community radio stations throughout Japan. Due to his work on J-Wave the execs at WOWOW thought Yokoi would be a good fit for St. GIGA.

Soon after he signed on Yokoi crafted a radical and artistic proposal for the station concept. The men in suits who controlled the money reacted with skepticism. Yet after a few months of traditional broadcasting the executives adopted Yokoi's concept for a probation period. Later he was given full discretion to shape the programming and future course of St. GIGA.

What Yokoi had in mind was a "Tide of Sound." The concept was quite revolutionary. To tie in with the concept, the station motto became, "I'm here. — I'm glad you're there. — We are St.GIGA." This was a tip of the hat to Kurt Vonnegut's science fiction novel *The Sirens of Titan* in which the alien life forms called harmoniums communicate using only the phrases "Here I am" and "So glad you are." Yokoi was also influenced by writer Kevin W. Kelley's book *The Home Planet*. Kelley's book was a collection of color photographs taken in space capturing the beauty of planet earth. The photos were paired with personal accounts of the experience of seeing earth from space by astronauts and cosmonauts. These two influences formed a communication methodology that broke new ground in the world of broadcasting.

As part of Yokoi's concept the St. GIGA broadcasts followed no externally fixed program schedule. It was not based on a solar calendar week, where a certain show would recur every Sunday at 7 PM. Instead Yokoi had the genius to base the transmissions around a tide table. Themes for broadcasts were based on a cyclical motif and tried to approximate the current tidal cycle according to the Rule of Twelfths throughout a 24-hour day.

The Rule of Twelfths is an approximation to a sine wave curve. The formula can be used as a rule of thumb for estimating a changing quantity where both the quantity and the steps are easily divisible by 12. It has been typically used for estimating the height of the tide. The rate of flow in a tide increases smoothly to a maximum halfway point between high and low tide, before smoothly decreasing to zero again. The rule is also used to make predictions on the change in day length over the seasons.

Tidal changes are non-linear. This means that in the first hours of a tidal shift the tide might not rise or fall very much, yet as the cycle progresses the rising or falling will accelerate through the mid hours. The Rule of Twelfths applies to the semidiurnal tide - a tide having two high waters and two low waters during a tidal day, which is exactly what happens in most locations. The semidiurnal tide period lasts for a period of 12 hours and 25.2 minutes from low to high tide, and then repeats back to low tide again. The full and new moons also have effects on the tide, as do the first and third quarter moons.

The transmissions of St. GIGA followed this pattern in a unique way, mimicking the swell of the tides and the course of the moon. With his "Tide of Sounds" broadcasting process the end of one show and the beginning of another was not demarcated or clearly defined as folks are used to hearing on the radio. Instead, gradually, using the Rule of Twelfths songs of one genre would flow into and intersperse with songs and material from the prior genre until the new genre, just like a high or low ocean tide, became predominant. Yokoi designed it this way so that listeners could relax into waves of sound "like a baby sleeps in the womb." These "Tide of Sounds" broadcasts operated under the awesome principle of "No Commercials, No DJs, No News Broadcasts, No Talk." If only more radio stations would follow this principle and ethic. Of course this absence of commercials and talk was only possible because the service was subscription based.

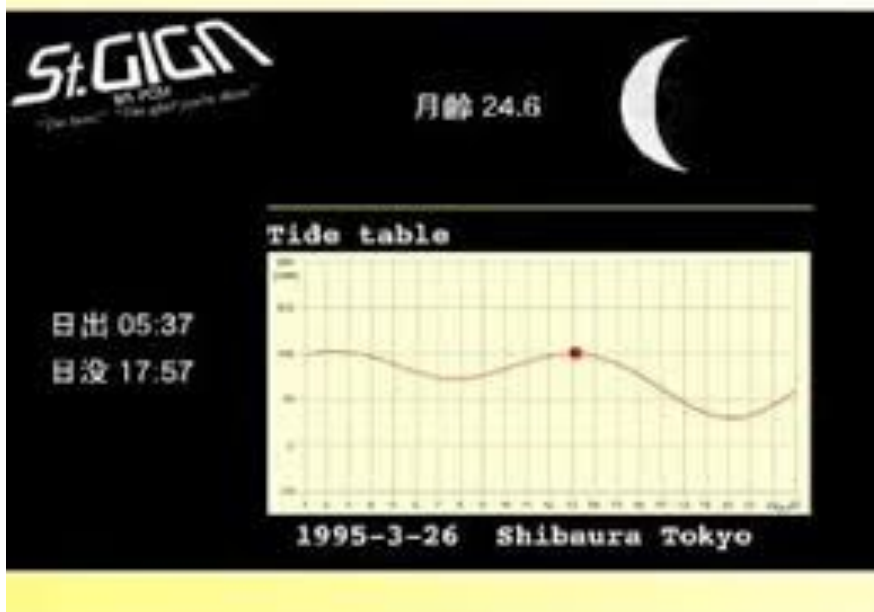
Besides the timing of the broadcasts the content was also informed by St. GIGA's tidal and lunar oriented schedule. It was heavy on ambient music, smooth jazz and field recordings from the natural world. One of the programs was called "Tide Table" and featured live environmental sound broadcasts of waves crashing on the ocean shore. The "Tide of Sounds" broadcasts often featured high-quality digital recordings of nature sounds accompanied by spoken word narration by the "Voice." The part of the "Voice" was played by a number of notable Japanese poets and actors including Ryo Michiko among others. "Voice" performances often consisted of all new poetry composed specifically for the show.

Ambient music, environmental sound recordings and poetry? It sounds perfect. I wonder what other funding models might be developed to breathe new life into this kind of innovative broadcast format? It seems like this mode could be set up and used by low-power community FM or AM stations, or on Part 15 compliant hobby broadcasting stations.

Due to the popularity of the environmental sound recordings and the overall library of material they played, St. GIGA was able to fund field recording trips to collect "biomusic" a term that includes bird songs, whale songs, dolphins, or the sounds of other animals and plants in their natural landscape. Biomusic recording artists were sent to places such as England, the Canary Islands, Mikonos, Venice, Bali, Tahiti, Martinique, Hanson Island (BC), and Maui, all to capture and create and transmit new worlds of sound for the listeners.

Ambient musicians were also commissioned to create original albums and works for the satellite station. Kim Cascone, under his Heavenly Music Corporation moniker, made and released the album Lunar Phase for broadcast from the bird. The album includes the song "St. Giga" and was released in 1995. It was from listening to this record that I learned of St. GIGA in the first place and went on to track down some of the recordings from the station that fans have made available on youtube. The Heavenly Music Corporation was a perfect fit for St. GIGA because the music is both heavenly, and in this instance, came down from the heavens.

The satellite gained something of a cult following and fanzines such as BSFan



Journal and G-Mania sprang up to write about the music and report on the allied ambient, mood, and electronic scene in Japan.

St.GIGA also released CDs of their music on their own label and the popular American ambient label Hearts of Space (also a fabulous late night radio show). A number of thematic books were published at the high tide of the satellites popularity including the multi-volume *St.GIGA Stylebook* and *Current of dreams: An introduction to St.GIGA programming*. This contained the full text of Yokoi's original concept proposal. Later books included *Trends in Dreaming - St.GIGA's Hiroshi Yokoi's General Office*.

Despite all this by the mid '90s the company was in financial trouble. The popularity of the satellite had peaked and was starting to flow back into the ocean. The market for ambient and related forms of music was not as strong as had been initially anticipated. Plus there was the pesky problem of a financial recession in Japan. Then there was the related issue of strapped consumers not wanting to invest in the expensive antennas and tuners needed to pick up the broadcasts. So St. GIGA formed a partnership with Nintendo. Because that's what you do if you are a popular Japanese satellite radio company in financial trouble. At this point Nintendo had become the largest shareholder in the company and with their influence the Tide of Sound broadcasts were cut back in order to bring some of their own programming on board.

With the video game company kicking them some dough, they started to broadcast digitally encoded games to owners of the Super Famicoms system between the spring of 1995 and the summer of 2000. The Super Famicom was the Japanese version of the Super Nintendo Entertainment System. Nintendo made an accessory component to work with the Super Famicom called the Satellaview. This was a satellite modem never released in America or Europe. The Satellaview allowed the users to connect to St.GIGA. During a special segment called Super Famicom Hour game data was broadcast. During this transmission people could download games to the Satellaview's internal memory or an optional Memory Pak. Super Famicom Hour actually lasted from noon to two am, so it took away a good chunk of time from St. GIGA's original programming.

Unlike other services offered by competitors the Satellaview did not have online multiplayer capabilities. This was due to the one-way nature of commercial satellite radio. Despite this limited amounts of data could be sent back through the radio connection. The service featured numerous quizzes and other competitions which required players to send their answers back up to the bird

Another new service related to the games was called SoundLink. CD-quality sound was streamed through the St. GIGA satellite connection to accompany real time play of video games such as the three versions of BS Zelda. The SoundLink included a fully-voiced "narrator" who would guide and give helpful hints and advice to the players throughout the game. Because the SoundLink required a live broadcast of music with a voice track, some games could only be played at the time of transmission. After the last broadcast of the SoundLink data was over, that game could never be played ever again. Some time-sensitive games were split into separate transmissions on different days to allow for the play of longer games.

Due to the rewritability of the cartridges and the fact that SoundLink broadcasts were streamed live and not downloaded during the noon-2AM Super Famicom "Hour" time slot, and because the games have never been rereleased by Nintendo, they have become extremely rare. Yet some can be played in partial emulation. This has been achieved by the extreme level of devotion and skill in this corner of high-geekdom. The subculture of collectors and game enthusiasts have exerted much effort engaged in electronic archaeology by extracting old data from heavily rewritten data cartridges in order to try to reproduce these games via emulation.

SoundLink also featured a type of enhanced magazine. This functioned as a mashup of a radio drama mixed with images and text. Unlike all other Satellaview content, SoundLink content was only available for an additional fee of ¥600 a month.

As St.GIGA's tide continued to ebb out it broadcast talk shows and entertainment news programs about celebrity idols, as well as a variety show. The shows were slotted to match the schedules of video game and pop culture addicted students as the station's audience had shifted radically, much to the disappointment of its original devotees, the ambient music fans. Before long the station had ceased transmissions of all "Time & Tide" programs including the much-admired Tidal Currents show. Fan publications such as BSFan Jour-

nal became replaced by ‘zines that focused on the video game content. Towards the end of its life St.GIGA had focused all of its energies on Satellaview transmissions.

Until 1999 the Satellaview service was controlled by both St. GIGA and Nintendo. After 1999 St. GIGA was the sole controller of the service, as Nintendo broke its partnership with the radio station due to a dispute. However, the service was only turned off in 2000. By 2001 St. GIGA was nearly bankrupt.

Around this time Yokoi the director had also been stricken with cancer. After his death in March of 2003 St.GIGA was rechristened Club COSMO under the leadership of Shinichi Matsuo. Broadcasts continued until October 1, when the company was forced to sell its licensing rights to World Independent Networks Japan Inc. (WINJ). WireBee immediately began bankruptcy procedures, and all recording instruments and 241 tapes of nature sounds were auctioned off at open market for a total divided sale price of ¥5 million.

St. GIGA had reached low tide. It is my hope that it and Hioroshi Yokoi, the man who made it so brilliant, remains in orbit in a heavenly and oceanic musical realm.

#### REFERENCES:

<https://en.wikipedia.org/wiki/St.GIGA>

<https://en.wikipedia.org/wiki/J-Wave>

[https://en.wikipedia.org/wiki/Rule\\_of\\_twelfths](https://en.wikipedia.org/wiki/Rule_of_twelfths)

<https://nintendo.fandom.com/wiki/Satellaview>

## Harvest Home Fair—Big 6

**I was contacted in the late evening of Wednesday, September 4<sup>th</sup> and was asked if I thought OH-KY-IN would be able to run the Big 6 booth at the Harvest Home Fair. They needed us on Friday and Saturday evenings, the 6<sup>th</sup> and 7<sup>th</sup>. Rather short notice, don't you think?**

**Well after making a few phone calls to see if the club could pull this off, I made contact with them on Thursday afternoon and committed to both nights.**

**A BIG THANK YOU to the people listed below for making it possible. Actually I think we all enjoyed running the booth. We should be contacted to do it all over again next year. And they promise to give plenty of advance notice.**

**Ryan AC8UJ**

**Tiffany KD8TIF**

**Dennis KE8LBY**

**Mike KD8ZLB**

**Dennis KD8ILY**

**Gary KB8MYC**

**John KD8MMY**

**Chris KD8YVF**

**Pat KD8PAT**

**Matt (Pat's Husband)**

**Bruce N8BV**

**73, ..... Bruce N8BV**



# Minutes of September 2019 Membership Meeting

Prepared by George Gardei. N3VQW

Meeting started at 7:31 pm with the pledge of allegiance to the American flag.

Guests:

Mark Evens

Douglas - neighbor of Justin KE8COY

W8GXR Scott

New Licenses and Upgrades:

None

Self introductions:

51 persons

Health and Welfare announcements:

Robert JMV's dad had ankle surgery, removed good portion of left heel.

Brag Session:

Rocky – ubitx came in mail, looks forward to putting in closet and forgetting about it for a year

Business Meeting:

Corrections - George got corrections in email, Red White and Blue Ash amounts and people who helped out should be included.

Membership report:

137 paid members

Treasurers Report:

Low activity this last month. In August, \$121 in income, \$133 in expenses.

File report for audit.

Silent Keys:

Eve Jelio, window of KC8JR passed

Tech Committee:

Gary - Repeaters are repeating and doing what they are supposed to be doing. Committee getting together at next Thursday 12<sup>th</sup>. The last several years we have been chasing daemons at the 67s and suspect hard line issue. We probably need to replace about 700' of hard line. At least ~5 grand for material, double to climb tower

Typical life of hard line is 10-12 years - it's about 20-25 years old.

Board has decided - probably set up a separate fund to pay for this. We don't have this kind of money, we will setup a separate fund to raise money. 20-25k budget.

Classes and Exams:

Fall classes starts Monday Oct 14<sup>th</sup> 7-9 pm ( 5 weeks) at the Red Cross facility. Both Tech and General  
Contact Mike, KD8ZLB for more information. Testing at the Red Cross Building Sat Oct 19th at 9:00 am

Foxhunts:

Did not have one in August because of Championships in NC. Will resume foxhunts in October.

Nets:

Tech Talk- Bring Questions

Newcomers & Elmer's net - Resumes next Sunday 8th

Win-link Wednesday - Send Ed K8EAF a message on Win-link Digital Group, 4th Tuesday every month.

QCEN:

Meeting on Friday, Sept 20th

ARES:

Had last meeting for ARES exercise in October. Wiping out Anderson township! Queen Bee is Oct 12<sup>th</sup>. Next meeting on Tuesday the 17th at Ham County Health Dept

Brunch Bunch:

Located at Frisch's Big Boy 1/74 North Bend

Calendar of Events:

Sept 7th - Ohio State Parks on the Air

Sept 14th - CF Bike Ride - right about the exact amount of volunteers

Sept 21st - Hamfest - Gary needs more volunteers -

Nov 16<sup>th</sup> - Phone sweeps

Jan 25-26th - Winter field day

June 2020, Youngsters on the Air

Old Business:

1940's Day - George N3VQW- good event, nice weather and good opportunity to introduce ham radio to the public  
Ohio QSO party – Joint with QCEN. 15 people attended. 217 contacts 2100+ points

Tour De Cure was two weekends ago - no incidents, quite successful

New items

Nominating Committee :

Find members willing to run for office next year, present nominees at November meeting. Sept 7th -

Vote in Dec to be installed in January

During the last club meeting we presented suggested Bi-Law changes.

Maple Dale Elementary - in first half of 2020, ISIS contact. We do not have all the equipment that we need, Need preamp, AZL rotator with computer control, and 14 element Yagi with polarity switch. This is not an exclusive club thing, so any club can join.

Voting on Bi-Law Changes:

Needed 41 members to vote for quorum. Not enough members present for quorum.

W8tda won hat

K4bri won hat

Kd8zlb won hat

Splt the pot

Wa6ezv won 80

Sun	Mon	Tue	Wed	Thu	Fri	Sat
5H3 - Tanzania Thru 10-5  	A82X - Liberia Thru 10-11  	1 7P8AO - Lesotho Thru 10-19  	2 ZK3A - Tokelau Thru 10-11 ----- TO80SP - St Pierre & Miquelon thru 10-14	3 YJ0BCP - Vanuatu Thru 10-10 ----- 5B - Cyprus thru 10-13	4 VP2V - Br Virgin Is Thru 10-13  	5 V31 - Belize Thru 10-12 ----- OJ0W - Market Reef thru 10-12
6	7 T30GC - West Kiribati thru 10-23  	8 VK9N - Norfolk I Thru 11-4  	9	10	11	12 VP9 - Bermuda Thru 10-15  
13	14	15 5K0K - San Andres & Providencia Thru 10-30  	16	17 P4 - Aruba thru 10-31  	18 9H3YY - Malta Thru 10-22 ----- VP6R - Pitcairn Is Thru 11-1	19 VU7RI - Lakshadweep Is Thru 11-3  
20 D68CCC - Comoros Thru 11-1  	21	22	23 3W9QR - Vietnam Thru 11-1	24	25	26
27	28	29	30	31  		

#### 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, October 1st at 7:30 PM

## Program:

## Safety

**Gary Coffey KB8MYC**

#### OH-KY-IN Amateur Radio Society

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