

Q-FIVER

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



The President's Corner

Wow! What a blast of cold and snow! January brought us two full weeks where the temperature did not make it to freezing! (Did you put up an antenna during this cold snap? Some old-time hams swear antennas work best when put up in extreme weather! I have yet to test that theory. . . .) As I write this we are returning to colder temps and a bit of snow, but it does not look like we will have the bitter cold this time.

Our January meeting was quite a success thanks to Brian K4BRI and his presentation on SDR dongles and how to use them as a very inexpensive Spectrum Analyzer! It's amazing the capabilities these little SDR dongles have, paired with free software and an inexpensive computer or tablet! Brian brought several units for folks to explore after his presentation, and many people hung around to see them in operation. Another **VERY** exciting thing happened in January: 10-yr old Nikilesh Kashyap passed his Technician's license test with a **PERFECT** score!! Whoo-Hoo! Way to go Nikilesh!! Proud Papa and OHKYIN member Raajesh (KE8BEJ) was thrilled of course, and Nikilesh has been assigned the call KE8IPE. Make sure you say hello if you hear his call on the air!



You can read more about Nikilesh's excellent performance on the OHKYIN website. Nikilesh is a young man to keep your eye on as he is definitely going places, both in amateur radio and in the world of Lego Robotics, as part of First Lego League activities through his school (with Dad as coach!).

In our February meeting we will have a presentation on weak-signal software, particularly focused on FT8. In addition to describing how to get started and how the software works, we are going to attempt to make some contacts if we can get some signals to come into the meeting room!

March continues with what promises to be a great presentation by Ohio Section Manager Scot Yonally N8SY on DMR Radios, with some bonus tips and tricks! Many in our club have purchased DMR radios, and more want to, but need a little help understanding this commercial technology which has been brought into the amateur world. Scot will try to demystify some of the terms and operational schemes of this mode. I know I need the help!

So there you have it folks, as always there are good things happening in the club! Come on out, brave the cold, and join us for the February meeting and hopefully March will be bringing us much warmer temperatures!

Cheers! Robert AK3Q

2018 Board of Directors

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Robert Gulley AK3Q..... (859) 638-0374 ak3q@ak3q.com

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Gary Coffey KB8MYC (513) 382-3879 kb8myc@fuse.net

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 & callsign 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

2018 Committee Chairs and Appointments

Newcomers/Elmers Net..... Robert Gulley AK3Q
 Technical Operations Group Eric Neiheisel, N8YC
 ARPSC Representative.....Jerry Shipp W1SCR
 Volunteer ExaminersBrian 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
 PIOTed Morris NC8V
 Librarian Justin Moore KE8COY
 Digital GroupJerry Shipp W1SCR

Q-Fiver Editor Brian DeYoung, K4BRI
 Field Day..... Eric Neiheisel N8YC
 Historian Dale Vanselow KC8HQ5
 Special Publications Jo Haltermon KD4PYS
 Fox Hunters Dick Arnett WB4SUV
 Equipment MgrFred Schneider K9OHE
 WebMaster George Gardei N3VQW
 Silent KeyBruce Vanselow N8BV
 Tech Talk Net MgrBruce Vanselow N8BV
 K8SCH QSL Mgr Bob Frey WA6EZV
 TV/RFI Dick Arnett WB4SUV
 HamFest Gary Coffey KB8MYC

The date of the Board meetings has been changed to the second Tuesday of the month—still at My Neighbor’s Place 3150 Harrison Ave at 7PM. Board meetings are open to all.

February Calendar

- Sun Feb 4 6:30 PM Newcomers/Elmers Net, 146.67,
 Topic: **Ground Conditions**
- Tue Feb 6 7:30 PM Club Meeting in St Bernard—
 Topic: **Weak Signal Modes (FT8): Setup and Operation - Robert AK3Q**
- Wed Feb 7 9:00 PM Tech Talk, NCS Robert AK3Q
- Sat Feb 10 10:00 AM Monthly Mobile Foxhunt—starting at Mt. Storm park in Clifton—setup starts at 9:30am
 1:00 PM Brunch Bunch at **Chili Time Restaurant**
4727 Vine Street in Saint Bernard
- Sun Feb 11 6:30 PM Newcomers/Elmers Net, 146.67,
 Topic: **Mystical Powers 1: The SWR Beast**
- Tue Feb 13 7:00 PM Board of Directors meeting at My Neighbor’s place –3150 Harrison Ave.
- Wed Feb 14 9:00 PM Tech Talk, NCS Eric N8YC
- Sun Feb 18 6:30 PM Newcomers/Elmers Net, 146.67,
 Topic: **Mystical Powers 2: Tuners to Manage The SWR Beast**
- Wed Feb 21 9:00 PM Tech Talk, NCS Dale, KC8HQ5
- Sun Feb 25 6:30 PM Newcomers/Elmers Net, 146.67,
 Topic: **Supporting Your Antennas**
- Wed Feb 28 9:00 PM Tech Talk, NCS George N3VQW

The Music of Radio: Water Walks and Variations

By Justin Patrick Moore, KE8COY

John Cage's composition *Imaginary Landscape No. 4* wasn't the end of his engagement with the use of radio as a sound source. In fact his imagination, now glowing like a hot tube, was just getting warmed up. I will turn to his next experiments shortly, but I wanted to dwell for a moment on his earliest radio work, that I overlooked in last month's article. I had quite forgotten about Cage's involvement with the Boy Scouts in Los Angeles in the early 1920's. It was during this time period that his fascination with radio was sealed. His father had built a crystal set that could be plugged into an electric light system. For his effort it got his father listed in the city directory as a "radio engineer" though he had been more recently famous for his work on submarines. Cage sr. had invented parts and systems for subs that helped keep them level and also a system for running the engines on gasoline instead of batteries, which increased the speed of the subs. His father's flair for invention seemed to have been passed on to Cage jr. As a Tenderfoot in the Boy Scouts John got the idea of hosting a scouting program on the radio. First he obtained permission from his organization, and then he approached LA station KFWB who rejected his proposal. He next took his idea to KNX, and they gave the show the green light. It broadcast weekly on Friday afternoons. John at the time had considered himself destined to be in the ministry as his grandfather had been. As such he began each program with ten-minutes of oratory from a local religious person, be they minister, rabbi, or priest. The rest of the show was devoted to singing Scout songs over the air, sometimes with John accompanying his fellows on the piano. Other topics included such favorites as building fires and tying knots. KNX is still on the air on 1070 kHz in L.A. as one of the original clear channel stations, blasting a non-directional 50,000 watts. KNX had begun with a humble 5-watts when amateur Fred Christian put it on the air as 6ADZ. It was from these small beginnings, and his first taste of the airwaves, that he built on as a composer, presenter, experimenter, creating works for radio and incorporating radios themselves into a number of works.



After *Imaginary Landscape No. 4* Cage's next piece involving radio was written for a television program. His piece, *Water Walk*, lasts about three minutes and consists of many small actions relating to water. He timed each of his sound making actions to the precise second required by the score using a stop watch. Written for such fun sound making things as gong with water gun, and crushed ice in electric mixer, it also includes five radios and a piano. He stopped at the radios and adjusted frequency and volume, then released steam from a kettle, and plinked a few keys on the piano. *Water Walk* appeared live on television twice, first in 1959 in Milan, on the show *Lascia o Raddoppia*, an Italian version of the then popular *Double or Nothing Game Show*.

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Returning back home he got the chance to share it with American audiences on *I've Got a Secret* in 1960. It's a slice of media history that you can watch over on the youtube at this url:

<https://www.youtube.com/watch?v=SSulycqZH-U>

Six years down the road came *Variations VII* that was presented on two of the nights of *9 Evenings: Theatre and Engineering* that paired artists, musicians and performers with engineers from Bell Labs in presenting new works fusing technology to contemporary art practices. The *9 Evenings* was the first in a series of projects that came to be known as E.A.T., or *Experiments in Art and Technology*. This was the first organized large scale collaboration between artists, engineers, and scientists. Some of the engineers included Max Mathews (whose work was included previously in this column), Bela Julesz, Billy Klüve, John Pierce, Manfred Schroeder, and Fred Waldhauer, alongside many others, around 30 in total. There were 10 artists involved including Cage, Robert Rauschenberg, David Tudor, and Robert Whitman. The collaboration between the artists and engineers produced a number of "firsts" for technology in the theater. Some were specially-designed systems and equipment. Others repurposed existing gear in innovative ways. Closed-circuit television and television projection was used on stage for the first time; an infrared television camera captured action in total darkness; a Doppler sonar device translated movement into sound; a fiber-optics camera picked up objects in a performer's pocket; and portable wireless FM transmitters and amplifiers transmitted speech and body sounds to loudspeakers. The performances took place between October 13-23, 1966 at New York's 69th Regiment Armory, at Lexington Avenue and Twenty-Fifth Street. Around 1000 people attended each evening.

The engineering side for Cage's piece was overseen by Cecil H. Coker whose primary area of focus was acoustic research, specializing in articulatory speech synthesis. Coker, with two colleagues, wrote the first software text-to-speech program in 1973. Coker had worked with Cage before on the piece *Variations V* helping to develop a system of for using photoelectric cells to provide lighting and randomly triggered sounds. *Variations VII* was considerably more involved though it still used photoelectric cells as a key component for triggering sounds.

In composing *Variations VII*, Cage used no previously prepared sources of music. It consisted only of "those sounds which are in that air at the moment of performance." Part of the elaborate set up included ten telephone lines installed to the Armory and kept open at various locations in New York City. Some of the places they were connected to included Luchow's restaurant, the Aviary, the 14th Street Con Edison electric power station, the ASPCA lost dog kennel, The New York Times press room, Merce Cunningham's dance studio, and one next to fellow composer Terry Riley's turtle tank. Magnetic pickups on the telephone receivers fed these sound sources into Cage's sound manipulation system, and from there to a dozen loudspeakers, one ceiling speaker. He also used 20 radios, one tuned to the police department dispatch), 2 television bands, and 2 Geiger counters. Oscillators and a pulse generator were other sound sources. Rounding it all off were a dozen household appliances such as blenders, fans, a juicer, and washing machine, wired with contact microphones. If that wasn't enough sounds from four wired body parts, heart, brain, lungs and stomach were included in the unpredictable mix. The entire set up stood on a platform with equipment stretched across two long tables. Cage, David Tudor and three other musicians moved around between the rows twisting knobs, plugging and unplugging cords and circuits, and flipping switches. Adding further randomness to the mix were the 30 photocells and lights mounted at ankle level around the performance area. These activated and triggered different sound sources as the performers, and audience who came in close to watch, moved around the set up.

Video artist Naim June Paik compared the roaring noise of *Variations VII* to a Niagra Falls of sound. Nothing like it had ever been heard before. And since so many of the sounds came from live sound sources an ex-

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act sound replica can never be recreated. Paik also considered to be Cage's masterpiece performance in the realm of electronic music. A video of part of the performance can be watched here:

<https://www.youtube.com/watch?v=JxeFhRZwU84>

The Maker and Hacker movements have had a great success in continuing to build relationships between the technically minded and the artistically minded. Ham radio has different restrictions imposed on it by the FCC. However it seems to me that somehow Hams could still work in creative ways with artists and musicians, and continue to forge vital connections between art and technology.

Sources:

Begin again: a biography of John Cage by Kenneth Silverman, Alfred Knopf, New York, 2010.

Where the Heart Beats: John Cage, Zen Buddhism, and the Inner Life of Artists, by Kay Larson, Penguin Press, New York, 2012.

Reception: the radio works of Robert Rauschenberg and John Cage, by Alana Pagnutti, Smith and Brown, 2016.

https://en.wikipedia.org/wiki/9_Evenings:_Theatre_and_Engineering

<http://www.fondation-langlois.org/html/e/page.php?NumPage=611>

Technical Operations Group

As I have assumed the duties of the Oh-Ky-In ARS Technical Operations Group Chairman, we have discussed how we want to go forward in the direction of our repeater system, particularly with the future in mind. As too many clubs around the nation have seen great losses in membership and/or participation, Oh-Ky-In continues to gain members and grow. That is for many reasons, mainly diversity of ideas, elmership and pride. In the leadership positions from the President to the Board and then to the Committees and events there is always a sense of professionalism, or, just wanting to do it right. We take great pride in what we do. It is with these standards I take on the responsibilities of Chairmanship. My intention is to continue the great things that have been done with this Group and carry them into the future.

Over the last several weeks we have had much discussion on how we want to do things, particularly looking at the future. We have focused on several ideas around standards (training, maintenance and documentation), standardization (procedures, methods, equipment and software), and what I always think as the most important, continuity. Through many years, we have been blessed with highly skilled hams who have built and maintained our repeaters. However, those few people are run to the bone, they quite often get burned out. It is my primary mission to organize the Group to train, and then those who are trained will become the trainers. That is the primary objective of any organization, to carry on and grow.

So here is what we are looking at. To be eligible to become a member of the Oh-Ky-In ARS Technical Operations Group, we need people who are willing to become a control operator of our repeaters. That is at the most basic level but the most important responsibility. We first need to have operators who know how to conscientiously monitor and control our system before we can expect those operators to learn the more complex duties of maintaining the gear and then to move on to programming and software. Everything comes with expectations and goals for individual growth. Then as we do grow, we hope to have enough qualified operators to have station chiefs and several people who can totally and independently tackle any issue that comes up in the normal operation of our repeaters.

With the help of a number of members already engaged in our technical operations, I too have to train and grow. However, the direction and focus of the Group is my responsibility and am now the voice of the Group. Any questions, suggestions, concerns, or comments you may have are always welcome but please direct them to me. Any issues will be resolved down the chain as needed.

Thanks and 73!

Eric Neiheisel, N8YC
Oh-Ky-In ARS Technical Operations Group Chairman
neiheisel@fuse.net

January 2nd 2018 Meeting Minutes

The meeting was called to order at 7:33 with outgoing president Gary KB8MYC leading with the Pledge of Allegiance
Gary KB8MYC handed over the reins to incoming president Robert AK3Q. Congratulations Robert and thank you Gary!

Guests: none

New licenses or upgrades: none

Self introductions: 29

Health and welfare: none

Brag sessions: David NU8H set his HF station back up with an attic slinky dipole

Prior meeting minutes:

- November and December's minutes from the Q-Fiver were both submitted
- It was moved and seconded and passed to accept the reports as amended

Membership: 126 as of 1/2/2018

Treasurer's report:

- Brian K4BRI submitted both November and December's reports
- The amount was reported for dues paid via PayPal
- The December report's opening balance was amended due to a copy and paste error; the closing balance will be amended as well
- The reports were filed for audit

Silent keys: Bruce N8BV reported none

Tech Committee report:

- Brian K4BRI reported four repeaters are on the air!
- 146.670 now has its amp operational and is transmitting around 107 watts
- 146.925 has been revisited and received a new antenna
- 440.7625 is up and running with a new antenna at about 20 watts and is running System Fusion
- 146.625 is plugging along and doing well
- The next committee meeting is scheduled for Tuesday, January 9th at 7:00 PM at My Neighbor's Place, 3150 Harrison Avenue, Cincinnati, OH 45211
- Eric N8YC will take over as chair of the Tech Committee for 2018, congratulations!

Education:

- Mike KD8ZLB reported a five-week Tech and General license class from 7:00 PM to 9:00 PM on Mondays starting April 2nd and ending April 30th

- There will also be a ten-week Extra license class from 7:00 PM to 9:00 PM on Mondays from February 26th to April 30th
- License testing will be held on Friday, May 4th, 2018
- Contact Mike KD8ZLB at kd8zlb@gmail.com for more information

Foxhunt/ARDF:

- Brian K4BRI reported that December was a mobile foxhunt and Dick WB4SUV won 2017 by points, congratulations!
- January will be an on foot ARDF using 80m on Saturday, 1/13 at 10:00 AM at French Park, 3012 Section Road, Cincinnati, OH 45237
- Alternating mobile and on foot hunts will continue every other month with the next mobile foxhunt taking place in February

Nets:

- Bruce N8BV reported the Tech Talk Net is going strong with Robert AK3Q being this week's net control
- Robert AK3Q reported the Newcomers' and Elmers' Net is going strong and had 21 check-ins for 12/24 and 24 check-ins for 12/31, excellent for holidays, and meets every Sunday from 6:30 PM to around 8:00 PM

Website: nothing

QCEN:

- Pat KD8PAT reported the next meeting is Friday, January 19th 7:30 PM at the American Red Cross, 2111 Dana Avenue, Cincinnati, OH 45207, but get there early around 5:30 PM/6:00 PM to play with the radios

ARES:

- Bryan KC8EGV reported ARES VHF Simplex Contest is on Saturday, 1/13
- Meetings are the third Tuesday of the month with the next meeting on 1/16 at 6:30 at the Hamilton County ROC, 2000 Radcliff Drive, Cincinnati, OH 45204; the topic will be WebEOC training
- ARES will spend the beginning part of the year organizing paperwork
- Hopefully there will be no nasty weather incidents this season!

Old Business: none due to the December's meeting being the annual Christmas Party

New Business:

- Mike KD8ZLB discussed the Cystic Fibrosis Bike Ride for 2018, it will be on September 15th this year. Due to a prior commitment, someone will need to step up and fill in for Mike.
- Bruce N8BV informed us that this month's Brunch Bunch is on Saturday, 1/13 at 1:00 PM at the Cock & Bull Public House in Glendale, 275 E Sharon Road, Glendale, OH 45246.

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- Jerry W1SCR reported that the Digital Group did not meet in December due to the holidays. They meet on the fourth Tuesday of the month in the basement of Saint Bernard's Centennial Hall at 7:00 PM. Please keep the facilities we use clean and straightened up as Saint Bernard does not charge us a use fee and rolls over our original deposit from year to year, let's keep up the excellent relationship we have! Also, the building is a no concealed carry facility, so please no firearms. Thank you!
- Gary KB8MYC donated two variable power supply kits as door prizes and a recently won 2017 ARRL Handbook to the library
- Robert AK3Q reported that Justin KE8COY has taken over as librarian from Howard KD8WOY who had to step down due to time constraints. Please bring back any borrowed books or let Justin know what you have checked out as he did not receive a list.
- The meeting was recessed at 7:57 PM and resumed at 8:12 PM
- Michael KD8SOH presented on Winter Field Day, which is Saturday, January 27th and Sunday, January 28th this year. Due to more than doubling the price of the facility, we will not be using the same location as last year. Instead, the club is looking to partner with QCEN at the American Red Cross and work indoors. This means lower points, but Winter Field Day is becoming popular and we can look to move back outdoors next year. More information will be forthcoming on the email reflector.

Program: Brian K4BRI presented a homebrew project using SDR dongles and tablet computers to build feature rich portable spectrum analyzers at a fraction of the cost of the commercial models.

Split the pot took in \$124 with Steve W8SCI winning \$62.

Door prizes: Steve W8SCI and Ted NC8V won the donated power supply kits.

Next meeting: Tuesday, February 6th at 7:30 at the Saint Bernard Municipal Building, 120 Washington Avenue, Saint Bernard, OH 45217. The program will be on Weak Signal Modes.

The meeting adjourned at 8:44 PM.

Respectfully submitted, Cesi KD8OOB, Secretary

Hamilton County ARES January Activities

Justin Moore, KE8COY

Time waits for no one. Hamilton County ARES volunteers rolled out the door and into action this January, setting the tone for another busy year of service in 2018.

On Saturday the 13th members participated in the Ohio VHF/UHF Contest making contacts. “The purpose of the Ohio ARES VHF Simplex Contest is to help operators discover issues with and improve station and antenna performance, and to test simplex coverage areas - information that could be critical in times of emergency when repeaters have failed and simplex is the only method of FM communication. Primary activity occurs on the 2-meter band, but six meters and the UHF bands and above are also used.”

On Wed. January 16th ARES members were invited to participate in a QebEOC training course taught by Fire Department Capt. Matt Flagler NE8X at the regional operations center (ROC). The training helped amateurs get up to speed on the web-based crisis management system that designed for supporting the ICS method of response management for significant incidents. WebEOC also provides a unique toolset for supporting Daily Operations at Regional Response Centers. It is used by 47 states, and is a great way for teams, who may be working at different locations, to share information and resources. ARES members will surely be polishing those webEOC skills during in the ham shack at the ROC during events throughout the year.

The Sunday evening Newcomers / Elmers Net on January 22nd featured an informative and lively discussion led by Bryan KC8EGV, Hamilton County ARES own Emergency Coordinator. The topic of the net was on nets themselves and emergency communications in general. With 38 check-in's total, and much back-and-forth talk between participants, the net made for an enjoyable and insightful way to spend a Sunday evening, all while brushing up on how traffic is handled in a variety of EmComm situations and types of nets.

For those who aren't already aware of it, Duke Energy offers power outage alerts sent directly to your phone. You can sign up for them here: <https://m.duke-energy.com/outages/outage-alerts/> . It's a good way to stay informed of power issues that affect your area. The outage alerts for your area will let you know about restoration times and status updates, outage causes, and when power is restored.

At the time of this writing, January 27, Hamco ARES members are participating in a Health Department Pod exercise in Loveland, Ohio. Other members are also taking part in Winter Field Day, this year held in the QCEN's radio room at the Red Cross Building. I hope to have some reports on these events in next months Q-Fiver. Until then, be safe and keep your aerials up.

73.

Brunch Bunch

The next Brunch Bunch will be held Saturday, February, 10th, at 1pm. The location for February is Chili Time Restaurant located at 4727 Vine Street in Saint Bernard. Chili Time is directly across Vine Street from the corner of Vine Street and Washington Avenue. It is a very short distance from the Saint Bernard Municipal Building, where the OH-KY-IN club meetings are held.

Chili Time is where the Brunch Bunch got its start back on February 12th 2011. So we visit Chili Time every February to celebrate where the Brunch Bunch got started. This will be our 7th anniversary! Its hard to believe that we've been doing this every 2nd Saturday of the month for 7 years! Over these years we've had as few as four people and as many as 24 people attend the Brunch Bunch. And, of course, you are certainly invited to join us.

For a look at the Chili Time menu as well as a map go to:
www.chilitime.net

I understand that Chili Time also has a facebook page with even more information.

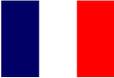
Remember that the Brunch Bunch always meets the second Saturday of every month at 1pm at a location to be announced each month. If you can't join us this month, maybe you'll be available to join us in the months ahead.

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



February 2018 DX Spots de KA3MTT

| Sun | Mon | Tue | Wed | Thu | Fri | Sat |
|---|---|---|---|--|--|---|
| | | | | 1 T88XS - Palau thru 2-5 ----- P29VXG - Papua New Guinea thru 2-7 ----- HP8 - Panama thru 2-15 ----- 6W - Senegal thru 2-28 | 2 JD1BNA - Ogasawara Thru 2-5 | 3 |
| 4 | 5 | 6 | 7 | 8 V31 - Belize thru 2-14  | 9 C5DX - Gambia thru 2-16  | 10 PJ4 - Bonaire thru 2-24  |
| 11 | 12 | 13 CN2 - Morocco thru 2-20 ----- T8 - Palau thru 2-21 ----- V47JA - St Kitts & Nevis thru 3-16 | 14  | 15 | 16 | 17 |
| 18 FM - Martinique thru 2-28  | 19 | 20 TY1TT - Benin thru 2-28  | 21 KH0 - Mariana Is thru 2-28 | 22 | 23 3D2EU - Rotuma thru 3-16 | 24 |
| 25 | 26 H7DX - Nicaragua thru 3-6  | 27 | 28 | | | |

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, February 6th at 7:30 PM

Program:

Weak Signal Modes (FT8): Setup and Operation

By Robert AK3Q

**** DUES ARE DUE ****

***** NOTICE *****

The date of the Board meetings has changed to the **SECOND** Tuesday of each month

OH-KY-IN Amateur Radio Society

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PLACE
STAMP
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