



RCA Amateur Radio Club Indianapolis, IN



ARRL Affiliated Club
www.w9rca.org

FEBRUARY 2024

MONTHLY NEWSLETTER

THE NEXT MEETING OF THE RCA AMATEUR RADIO CLUB WILL BE TUESDAY, FEBRUARY 13th,
6:30 PM AT NORTH SIDE EVENTS, FORMERLY THE KNIGHTS OF COLUMBUS,
2100 EAST 71st, INDIANAPOLIS, IN

RCA ARC NEWS

JANUARY MEETING SUMMARY – Thanks to all who attended the January meeting. Comments about a recent big solar flare started the meeting. Jim, K9RU, talked about the new club insurance which will require a list of club members. We'll have a "sign-in" sheet each meeting to generate the "official" list. Those who don't attend a meeting for a couple of years will be purged from the list. Our Club will again renew membership in the Indiana Repeater Council. The '88 repeater Echolink is running on the new so called \$100 computer. Unfortunately, the companion program to Echolink which does the voice time announcements does not run well. John, KF9UH, is working on it. The DLARC Internet archive now has our Newsletters for the past several years. Jim, K9RU, reported the 2023 FD scores previously posted are correct and officially final. The club will participate with The Indy United Field Day again this year.

AMATEUR RADIO LICENSE TEST SESSION

Date: Saturday, February 10, 2024
Time: Starting at Noon **by appointment only.**
Location: Salvation Army EDS Training Facility, 4020 Georgetown Rd
Indianapolis, IN 46254-2407
Contact: Jim Rinehart (317) 721-1458
Email: testing@indyradioclub.org
Required: FCC FRN and a completed NVEC 605 license application form.

Laurel VEC test sessions: <https://www.laurelvec.com/?pg=exams>

HAMFESTS, OPERATING EVENTS, VOLUNTEER OPPORTUNITIES

Salvation Army Open Net, Thurs. 7PM, W9RCA repeater, 146.88 MHz, tone 88.5 Hz.

Feb 10 Hendricks County Hamfest, Hendricks County 4-H Fairgrounds,
1900E Main St, Danville, IN
Feb 10-11 CQ WPX RTTY <https://www.cqwpqrtty.com/rules.htm>
Feb 12-16 ARRL School Club Roundup <http://www.arrl.org/school-club-roundup>
Feb 17-18 ARRL DX CW <http://www.arrl.org/arrl-dx>
Feb 24 Cabin Fever Hamfest, LaPorte Civic Auditorium, 1001 Ridge St,
LaPorte, IN
Feb 24 Dugger Amateur Radio Club Hamfest, Dugger Community Building,
840 Hicum St, Dugger, IN

Mar 2-3 ARRL DX Phone <http://www.arrl.org/arrl-dx>
Mar 30 WVARA Spring Hamfest, Clay County 4-H Fairgrounds, 6550 N SR
59, Brazil . IN
May 17-19 Dayton Hamvention <https://hamvention.org/>
Dayton Hamvention Tickets: <https://hamvention.org/purchase-tickets/>

WA7BNM expanded contest calendar, <https://www.contestcalendar.com/>

Visit the **ARRL Special Event Stations database** at www.arrl.org/special-event-station to find other on-the-air events and commemorations.

Hamfest or Convention: www.arrl.org/hamfests

Find a license exam in your area: www.arrl.org/exam

ARRL Home: www.arrl.org

WEATHER SPOTTER TRAINING OPPORTUNITIES

Even though we're currently in the midst of lovely Indiana winter weather, spring IS coming. Spring time in Indiana normally means storms. So, for storms, we need storm spotters. Here is a listing of Spotter training classes for some of the "donut" counties:

Marion County:

March 7, 6 pm to 8 pm at Salvation Army EDS Marion County:

March 20, 2 pm to 4 pm at Indiana State Fairgrounds, Purdue Extension Bldg.

Hendricks County:

Feb. 24, 11 am to 1 pm at Hendricks County Gov. Ctr., Danville

Hamilton County:

March 2, 9 am to 11 am at Carmel-Clay Middle School, Carmel (registration required)

Morgan County:

Feb. 20, 6 pm to 8 pm Location TBD

Hancock County:

March 21, 6 pm to 8 pm at Ninestar Connect, Greenfield

The complete list of training sessions for the state can be found at <https://www.weather.gov/ind/spotter#train> -- IRC Newsletter, KJ9B

ARRL BOARD APPROVES FREE MEMBERSHIP FOR STUDENTS AND THE REINTRODUCTION OF THE LIFE MEMBERSHIP AND 70+ LIFE MEMBERSHIP

The ARRL Board of Directors met in Windsor, Connecticut, for its Annual Meeting, January 19 - 20, 2024, President Rick Roderick, K5UR, presided over the meeting.

Here are highlights of some of the actions taken at the meeting:

- The Board approved two motions aimed at engaging young hams with a strong start to their lifelong journey with amateur radio and ARRL:
- FREE ARRL Membership for Students.** For decades, ARRL has offered a reduced dues rate for young hams, currently priced at \$30 per year. At this meeting, the Board established a new option for a no-cost Associate membership for full-time students of age 21 and younger.
- ARRL Student Coding Competition.** The Board approved the creation of a coding competition that will challenge students 21 and younger to design a software application that meets the specifications established by ARRL. Awards of up to a total of \$25,000 will be granted by an awards committee to the winning student(s). The terms and schedule for the competition will be determined by the committee.
- The Board approved the reintroduction of **ARRL Life Membership and 70+ Life Membership** (for members of age 70 and over) on a revenue-neutral basis. At its July

2023 Second Meeting, the Board had suspended the Life Membership Program, pending the approval of an adjusted revenue-neutral program.

- With a goal of recruiting and developing greater participation in the **ARRL Amateur Radio Emergency Service® (ARES®)**, the Board has approved, at the recommendation of the Emergency Communications and Field Services Committee, a commitment to expand messaging and marketing for the program.

•**Government Relations.**

•The Board issued its strongest rebuke of efforts by the ad-hoc group "Shortwave Modernization Coalition" (SMC) to introduce high-power signals to the shortwave spectrum, including frequencies immediately adjacent to the Amateur Radio HF bands. The Board made a clear statement that the interests of the SMC are in conflict with those of ARRL and its membership, and has requested that the ARRL Volunteer Monitors explore ways to gather data on SMC station emissions.

•The Board voted to expand ARRL's ongoing efforts to help hams who are faced with involuntary limitations that limit their amateur radio operations beyond the regulatory efforts being pursued in Washington.

•**ARRL Foundation.** The Board heard a report ARRL Foundation President David Norris, K5UZ. The Foundation, which marked its 50th anniversary last September, provides philanthropic support for amateur radio by way of the ARRL Foundation Scholarship Program, Club Grant Program, and through other grants and funds. In 2023, the Foundation awarded 113 scholarships totaling over \$600,000, through the generosity of individuals and clubs. Norris also recognized the generous commitment made by Amateur Radio Digital Communications (ARDC) which will fund over \$2.1 million, over three years, to support scholarships, radio technology for classroom teachers, and amateur radio club grants.

•The Board voted to make the **ARRL Director's Workbook** publicly available on the ARRL website.

The complete minutes of the 2024 Annual Meeting of the ARRL Board of Directors will be available soon on the ARRL website.

The next meeting of the ARRL Board of Directors is scheduled for July 19 - 20, 2024 –Edited K9RU

RCA AMATEUR RADIO CLUB NEWSLETTERS ARCHIVE IN THE DIGITAL LIBRARY OF AMATEUR RADIO & COMMUNICATIONS PROJECT (DLARC)

The Digital Library of Amateur Radio & Communications. (DLARC) is a project of the Internet Archive (the not-for-profit online library best known for The Wayback Machine) with Kay Savetz, K6KJN as the curator.

The DLARC is growing to be a massive online library of the past and present of ham radio and related communications. It is funded by a grant from Amateur Radio Digital Communications. You can see what we have so far at <https://archive.org/details/dlarc>

They have asked permission to include the RCA ARC Newsletter in the archive and we agreed. Their archive already includes the Indianapolis Radio Club, W9JP, and the Ft Wayne ARC, W9TE.

The RCA ARC newsletters are in a sub-collection of their own, with a link to our website. This will provide a long-term backup of our content and increase its visibility to new readers. They will also be full-text searchable. Here is a link to RCA ARC archive: <https://archive.org/details/rca-arc>

Checkout the DLARC. It has more than 90,000 items. Do a search for your call sign, you may be surprised! Thank you, Kay Savetz, K6KJN

For more information about the DLARC project: <https://blog.archive.org/2023/09/12/dlarc-90000/> --K9RU & AF9A

AMATEUR RADIO OPERATORS WILL HAVE AN OPPORTUNITY TO CONTACT THE USS IOWA DURING THE SHIP'S 81st ANNIVERSARY CELEBRATION

USS *Iowa* (BB-61) is permanently moored at the [National Museum of the Surface Navy](#) in San Pedro, California, and was first commissioned during World War II on February 22, 1943. The on-air event will be held on February 22, 2024, from 1600 to 2400 UTC. The Battleship *Iowa* Amateur Radio Association (BIARA) will activate NI6BB, the ship's original call sign, utilizing BIARA's amateur gear and a circa 1980s legacy station with an AN/URT-23 transmitter and an R-1051G/URR Navy receiver. To help operators looking for NI6BB, the band plan below has been suggested to qualified associate operators. These bands have been screened to minimize conflict with other modes or known nets, but are subject to change due to existing traffic, contests, or band conditions. FT8 or FT4 operations will be on the standard frequencies for those modes.

Band	1A / CW	3E / SSB
40 m	7.061 MHz	7.261 MHz
30 m	10.116 MHz	-----
20 m	14.061 MHz	14.261 MHz
17 m	18.073 MHz	18.161 MHz
15 m	21.061 MHz	21.361 MHz
12 m	4.900 MHz	24.943 MHz
10 m	28.061 MHz	28.361 MHz

For updates and additional information, contact [BIARA](#). ARRL Letter

ARRL RESPONDS TO FCC PROPOSALS

ARRL [responded](#) (PDF) to the Federal Communications Commission's (FCC) request for comments on removing the symbol (baud) rate restrictions that apply to data communications on the LF bands and the VHF and UHF bands below 450 MHz. The FCC also requested comments on the bandwidth limits applicable to those bands.

The FCC's action follows their 2023 decision to remove the symbol (baud) rate limits on the 160- to 10-meter amateur bands. Those limits were replaced with a 2.8 kHz bandwidth limit, a move ARRL had long advocated for.

The FCC's Further Notice of Proposed Rulemaking sought comments on updating the other amateur bands on which its symbol (baud) rate limits continue to throttle faster data rates. The subject bands are the LF bands (2200 and 630 meters) and the VHF and UHF bands below 450 MHz. In its comments, ARRL strongly agreed with the FCC's proposal to remove the symbol (baud) rate limits on the remaining bands.

[Read more about ARRL's comments on ARRL News.](#)

The public period for reply comments remains open until January 22, 2024. An ARRL guide to filing comments is at: <https://www.arrl.org/arrl-guide-to-filing-comments-with-fcc>

ARRL IS NEW PUBLISHER OF GORDON WEST, WB6NOA

[ARRL](#) is the new publisher of the Amateur Radio License Preparation books and related resources authored by Gordon West, WB6NOA.

Gordon West's popular books, classes, and audio courses have been a mainstay of amateur radio licensing for over 40 years. Generations of hams have learned from 'Gordo', and now the impact of his knowledge and experience will continue with the reach and resources of ARRL.

Current editions of Gordon West's popular license prep books will be available from ARRL and ARRL [publication dealers](#) soon. Look for the category "Gordon West License Prep" in the ARRL [e-store](#).

The books, including future editions, will continue to be authored by Gordon West with Technical Editor Eric P. Nichols, KL7AJ. Nichols is a regular contributor to ARRL publications and has written several ARRL books. He has collaborated on the Gordon West books since 2013. ARRL Letter

GORDON WEST NAMED ARRL NATIONAL INSTRUCTOR

ARRL Education and Learning Manager Steve Goodgame, K5ATA, has also announced that Gordon West has been named ARRL National Instructor.

Goodgame leads ARRL programs that benefit amateur radio [volunteer instructors](#) and [professional educators](#). "Gordon West will serve as the ambassador for the new ARRL National Instructor Program," said Goodgame. "The program will place greater emphasis on connecting prospective hams with opportunities to find [ARRL Affiliated Radio Clubs, classes](#), and [exams](#). The National Instructor Program will also support ARRL volunteer instructors with new resources for teaching amateur radio courses and for developing licensees."

Read more about this exciting collaboration on [ARRL News](#).

THE 30TH ANNUAL DAYTON HAMFEST CONTEST DINNER SATURDAY, MAY 18, 2024

The 30th Annual Dayton Contest Dinner will be hosted by the [North Coast Contesters](#) during the weekend of the 2024 Dayton Hamvention®, which is hosting the 2024 ARRL National Convention. The dinner will be held at the Hope Hotel, located on Wright-Patterson Air Force Base in Dayton, Ohio, on Saturday, May 18, 2024. Social hour will begin at 5:30 PM and dinner will follow at 6:30 PM. Contest Director John Dorr, K1AR, is the Master of Ceremonies, and Chief Executive Officer of DX Engineering Tim Duffy, K3LR, is this year's speaker. The 2024 CQ Contest Hall of Fame inductees will also be announced at the dinner. [Tickets are on sale now](#). For additional information, visit [Dayton Contest Dinner - Ham Radio Contest Dinner in Dayton Ohio](#). --ARRL Letter

THE FIRST AMATEUR RADIO STATION ON THE MOON, JS1YMG, IS NOW TRANSMITTING

The Japan Aerospace Exploration Agency (JAXA) successfully landed their Smart Lander for Investigating Moon (SLIM) on January 19, 2024. Just before touchdown, SLIM released two small lunar surface probes, LEV-1 and LEV-2.

LEV-2 collects data while moving on the lunar surface, and LEV-1 receives the data.

The JAXA Ham Radio Club (JHRC), JQ1ZVI, secured amateur radio license JS1YMG for LEV-1, which has been transmitting Morse code on 437.41 MHz since January 19. The probe uses a 1 W UHF antenna with circular polarization and is transmitting "matters related to amateur business."

Radio amateurs have been busy analyzing JS1YMG's signal, with [Daniel Estévez's, EA4GPZ, blog](#) introducing the method and extraction results for demodulating Morse code from the signal, as well as extracting the code string.

It's unclear how long signals will be heard. JAXA has said that SLIM was not designed to survive a lunar night, which lasts about 14 days, and is due to return in a few days.

SLIM was launched on September 6, 2023, and landed on January 19, 2024, with the mission of analyzing the composition of rocks to aid research about the origin of the moon. SLIM's landing made Japan the fifth country to achieve a soft touchdown on the moon. The landing was achieved with exceptional precision -- within 180 feet of its targeted touchdown location. ARRL Letter

HAMSCI 2024 WORKSHOP

Ham Radio Science Citizen Investigation ([HamSCI](#)) will hold its sixth annual workshop on March 22 - 23, 2024, at Case Western Reserve University in Cleveland, Ohio. The event is meant to bring together the amateur radio community and professional scientists.

The 2024 workshop's theme will be "Alignments" - specifically those between the Sun, Moon, and Earth; collegiate amateur radio recreation and science, technology, engineering, and math (STEM) curricula; data collection and analysis, and professional and citizen science. Workshop participants will prepare for the solar eclipse taking place on April 8, 2024, which will be seen in totality from Cleveland.

HamSCI's main interest is using amateur radio for the characterization and study of ionospheric phenomena like traveling ionospheric disturbances, sporadic E, solar flares, geomagnetic storms, the 2024 total solar eclipse, and other space weather events. To facilitate this science, continued development of the [HamSCI Personal Space Weather Station](#) and discussion about integrating amateur radio into the collegiate curriculum will also take place during the workshop.

Registration is now open, and the deadline is March 1, 2024. HamSCI is also accepting presentations relating to amateur radio and science -- particularly space and atmospheric science, space weather, and radio astronomy -- that analyze the ionosphere, propose ideas for the Personal Space Weather Station, and discuss the 2024 eclipse.

Presentations should be the form of talks, posters, lightning talks, and demonstrations. The Science Program Committee will be accepting abstracts and presentations.

If you would like to present, please submit your abstract by February 10, 2024. Presenters will be notified about their acceptance by March 1, 2024. Questions about abstracts should be emailed to Nathaniel Frissell, W2NAF, at hamsci@hamsci.org.

For registration and additional information about the event, visit [HamSCI Workshop 2024 | HamSCI](#). ARRL Letter

YL1SSB CELEBRATES 61 YEARS ON THE AIR

February 8, 2024, marks the 61st anniversary of the YL System, now known as the [YL International Single Side-band System \(YL1SSB\)](#), founded by Vera Mayree Tallman, K4ICA (SK), in 1963.

Tallman received her first license in 1956 and later earned her General-class license. Though the system's name includes "YL," the amateur radio term for "young lady," membership is open to both women and men. YL1SSB is a community of radio amateurs who provide support, service, and fellowship to one another and to the rest of the amateur radio community. YL1SSB also encourages amateur radio skill development through both personal and system-wide support programs.

The YLISSB operates on 14.332 MHz every day of the year. On February 8 - 11, from 1323Z to 1323Z, special event station K4ICA will operate on 14.240 - 14.340 MHz and 7.230 - 7.260 MHz to commemorate the system's 61st anniversary.

To receive a QSL card, send a letter via self-addressed stamped envelope to John Ellis, W5PDW, at 26231 Huffsmith Conroe Rd., Magnolia, TX 77354. ARRL Letter

HEIL SOUND DONATES EQUIPMENT TO W1AW

The [Hiram Percy Maxim Memorial Station, W1AW](#), at ARRL Headquarters in Newington, Connecticut, has received a generous donation of equipment from the [Heil Ham Radio division](#) of [Heil Sound](#).

The company's founder, Bob Heil, K9EID, is a pioneering audio engineer and avid radio amateur. At his direction, the company donated four Heil Pro Set Elite HC-6 headsets, three Heil Pro Set 3 stereo headphones, two Heil FS-3 press-to-talk foot switches, one Heil iCM microphone, one Heil PR 30 microphone, and various adapters. The equipment has been placed into service at the station for use by [visiting operators](#), and for the [voice bulletins](#) transmitted each weekday evening by W1AW.

W1AW Station Manager Joe Carcia, NJ1Q, says the gear is going to be of great use. "We are fortunate to host many visiting operators each year, but all that use takes a toll on the gear," he said. "The generosity of Heil Ham Radio to help us keep the equipment fresh is greatly appreciated." ARRL Letter

DR. PHILIP ERICKSON, W1PJE, NEW DIRECTOR OF MIT HAYSTACK OBSERVATORY

ARRL Member and active radio amateur Dr. Philip Erickson, W1PJE, is the new director of the Massachusetts Institute of Technology (MIT) Haystack Observatory.

The prestigious scientific appointment is the continuation of a radio interest that began in his youth. "I started as a shortwave listener in the mid-1970's as a middle school student. So, in some sense, I was always fooling with antennas in the back yard and trying to understand why signals got to me at different times -- why were they different in the day and at night? What was the farthest place I could hear, or the closest place?"

That early interest led him to an electrical engineering degree and ultimately, a doctorate in space plasma physics from Cornell University that he earned in 1998. Erickson was first licensed as a ham only about 10 years ago, but he says the professional hardware he worked with daily scratched the itch until he could gain amateur privileges. Erickson enjoys homebrewing gear, learning from the foundations of vintage equipment, and using amateur radio in the scientific space. "An intense interest to me that crosses the boundary of what I do professionally and what I do as a radio amateur is what's happening with the HamSCI Collective... Can you use the observations that are already being made in the process of conducting the hobby and extract information from them? It turns out you can -- there's a lot of ionospheric information buried in there," he said.

The mission of the Haystack Observatory is to develop technology for radio science applications, to study the structure of our galaxy and the larger universe, to advance scientific knowledge of our planet and its space environment, and to contribute to the education of future scientists and engineers, [according to MIT](#). The facility is home to research projects that span spectrum from VLF to 388 GHz.

"We are almost a completely radio and radar observatory... We have a geospace group, which is most-closely associated with ARRL type ideas: the dynamics of the ionosphere and neutral part of the atmosphere, all the way out into near-Earth space. We are an observational group, so we use a bunch of different tools -- radars, radios, sometimes data from satellites, and mostly data from ground-based observations."

Erickson enjoys explaining to the uninitiated that amateur radio is not only still an active hobby, but that it is an important space for discovery. "You learn a lot about many different aspects of technical and science work [in ham radio]," he said.

While his day job keeps him on the edge of radio technology, Erickson is glad to see amateur radio is keeping pace. He says the coding of WSJT-X digital weak-signal modes such as FT8 and WSPR created by Dr. Joe Taylor, K1JT, are more advanced than most hams realize.

"If you were to go to an electrical engineering class, that's what you would see as the edge of how to pack information into a very small bandwidth. I enjoy pointing that out to people and getting them to understand that this other modulation mode is just one of the other palettes that are available." ARRL Letter

ONLINE THIS MONTH

1. **The Artemis program, "Return to the Moon?"**.... "I was scared to say this to NASA... But I said it anyway." Destin Sandlin, from the YouTube channel "**SmarterEveryDay**." Nothing in here about ham radio and it may not be what you're thinking it might be. **A must see for engineers:**

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

2. **HAM** is a short documentary that follows a group of Montanan amateur radio enthusiasts that show the loyal community of amateur radio, explore what it means to be a ham, and how they are trying to keep the hobby alive.

HAM - Official Documentary (2022) <https://www.youtube.com/watch?v=wt5wZhC5crI>

3. Here is a link to a free download of his K5ND's book, **Magic Band Revealed:**

<https://k5nd.net/magic-band-revealed-ebook-download/>

4. **Ray, W2RE**, of [Remote Ham Radio](#) (RHR) erects awesome towers with multiple antennas and remote controlled stations in mostly the Northeast part of the United States, but some other locations as well. He posts photos of his work frequently on Facebook:

<https://www.facebook.com/reel/7547856998615206>

<https://www.facebook.com/remotehamradio/>

If you can't see him on Facebook, he's interviewed here by Tim, K3LR, of DX Engineering:

<https://www.youtube.com/watch?v=waXKC0JFZ5o>

5. **RCA ARC** web site (www.w9rca.org) home page has been updated with pictures from 2023 Field day.



TECHNICAL

The ARRL RF Exposure Committee has prepared a new document designed to help amateur radio operators interact with their neighbors about radio transmissions and RF exposure. The document can be found on the ARRL's RF Exposure web page at: <https://www.arrl.org/rf-exposure> ARRL Letter

SHORTS

IS SOLAR CYCLE 25 NEARING A PEAK? Read a report about it at <https://bit.ly/3Sv70GF>. Also, read about some recent solar activity at <https://bit.ly/4b6n48Z>.

YOU CAN WATCH DR. TAMITHA SKOV'S, WX6SWW, at <https://youtu.be/41LGqYbxsvk>. Her YouTube channel has reached about 84,500 subscribers.

FOR CUSTOMIZABLE PROPAGATION CHARTS, visit the [VOACAP Online for Ham Radio](http://VOACAP-Online-for-Ham-Radio.com) website. Visit <https://bit.ly/48Yjcpa> and <https://bit.ly/3u53ZDK> to find out if there will be a cycle peak this year.

READ ABOUT THE SUN'S POLES FLIPPING at <https://bit.ly/4bvvmro> and <https://bit.ly/42kfjJC>.

READ ABOUT A POWERFUL SOLAR FLARE CAUSING A RADIO BLACKOUT at <https://bit.ly/3HGWYfn>. --ARRL Letter

IF YOU SEND QSL CARDS THROUGH US MAIL, BE AWARE OF A RATE INCREASE EFFECTIVE JANUARY 21. One ounce letters will go from \$.66 to \$.68, Post cards will go from \$.51 to \$.53, and International cards or 1ounce letters will go from \$1.50 to \$1.55. There is no scheduled increase for additional ounces. More information is available here. – ARRL Indiana Section Newsletter, ARRL Indiana Section Newsletter, Bob Burns AK9R

WHY WE NEED SHORTWAVE BROADCASTING – GOOD ARTICLE FROM RADIO WORLD WHY SW IS NEEDED

<https://www.radioworld.com/columns-and-views/guest-commentaries/why-we-need-shortwave-2-0> Thanks W9RE

NEWLY LICENSED HAM CHARLIE HARTLEY, KF0OOP, 18, IS ONE OF ARRL'S NEWEST MEMBERS. Ham radio, live sound, and music run in his blood; he's the grandson of Bob Heil, K9EID. He's majoring in sound engineering at Webster University in St. Louis, Missouri, and is an accomplished musician, playing both bass guitar and the upright string bass.

Charlie had been secretly studying for his license. After passing his test, he revealed his new Technician-class privileges and call sign to his famous-ham grandpa as a birthday surprise. The pair joined many others at the ARRL Midwest Division Convention/Winterfest, which is organized and sponsored by the St. Louis and Suburban Radio Club. --ARRL Letter

BEING HEARD ON CAPITOL HILL --- The Public Broadcasting Service posted an interesting video today about getting your voice heard in the U.S. Congress. The video presents 5 tips to that might help. According to the video, a typical U.S. House of Representative's office will receive 40,000 to 180,000 emails from constituents each year. If you contact your Congressional representatives, your email or letter will need to rise above the "noise". <https://youtu.be/IGtMsOw2FrM?si=OGK69xfaOWTzSfY> --ARRL Indiana Section Newsletter, Bob Burns AK9R

THANKS FOR READING

THE RCA ARC MONTHLY NEWSLETTER IS COMPILED AND EDITED BY JIM RINEHART, K9RU AND JIM KEETH, AF9A. ALL MATERIAL CONTAINED HEREIN IS OBTAINED FROM THE SOURCES CREDITED AND EDITED FOR THIS NEWSLETTER.
