



NARS NEWS

APRIL 2023

Northwest Amateur Radio Society
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w5nc.net

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Message**
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**New Trailer
Wrap Complete**
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KQ5U,
and WAJA**
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NARS News is published monthly by the Northwest Amateur Radio Society (NARS). Northwest Amateur Radio Society is a Special Services Club affiliated with the American Radio Relay League, ARRL Club No. 2120.

If you would like to contribute to the newsletter by publishing an article, adding calendar events, or any other contribution, please send all submissions before the end of the month to the newsletter editor:

Brandon Rogers (K5BLR), Newsletter Editor

k5blr@arrl.net

President's Message

BY RON MATUSEK, WA6TQH

NARS Trailer Renovation

I would like to thank all the NARS members who were part of the team effort to Create a RAP for our trailer. Under the leadership of Paul Kent KI5FJS we now have completed phase #1 of the trailer renovation project. This trailer is now on display at our general meeting location Klein Fire Station #3. Paul will provide more specifics within this newsletter detailing the behind-the-scenes effort of those individuals who helped to design and coordinate the actual cost reduction that went into making this a project we can all be very proud of. Thank you, Paul Kent, and team! Now onto Phase #2 outfitting the interior of the trailer with shelves, worktable and of course antennas and radios. If you can join in the effort, please contact Paul.

Equipment Donations

Some members are cleaning house and have donated large amounts of Amateur radio equipment and parts to NARS for the purpose of securing a new home for this equipment. Paul Kent KI5FJS has been heading up this project and has pictures of the assortment of equipment which has been shown during our recent ZOOM session. The amount of equipment will overwhelm anyone, but Paul feels that there would be enough interest that we may have a special event to offer this equipment to some needy ham. Currently this equipment is being housed in a storage locker at a low cost, but we need help to get this equipment visible to anyone who may want to offer moneys to put this equipment into the hands of a needed Ham. Contact Paul Kent for more information.

April General Meeting Presentation

The presentation subject scheduled for our General Meeting in April will be "FreeDV" and will be presented by Mooneer Salem K6AQ. He gave this presentation at Hamcation back in February so if you missed it this is your opportunity to get on board with the FreeDV capabilities.

Repeater Enhancements

Our Technical Team continues to improve on tweaking our Echo Link, Allstar interfaces to bring about a more robust communication link including better audio. Be sure to check out these links especially weekly during our VHF/UHF nets on Wednesday evenings 8PM. Your feedback is encouraged.

FIELD DAY 2023 – The fourth weekend in June 24-25 – so save the date!

I would like to thank Robert Ewers K9HOU who has come forward and will be our "Field Day Coordinator". A field day coordinator is responsible for appointing team captains, facility survey for antenna placements and gaining facility management approval and, most important ensuring ALL guidelines for Field Day as outlined by ARRL RULES are followed. If you would like to be one of our team captains, please contact Robert Ewers K9HOU. Look for more communications about Field Day to come in the next few weeks.

See you at the General Meeting!

Ron Matusek
President NARS

Exam Practice

Are you new to the hobby and looking to pass your Technician exam? Are you preparing to level up your license by taking the next level exam? Check out the questions below to test your knowledge!

Technician (Element 2)

T1C02

Who may select a desired call sign under the vanity call sign rules?

- A. Only a licensed amateur with a General or Amateur Extra Class license
- B. Only a licensed amateur with an Amateur Extra Class license
- C. Only a licensed amateur who has been licensed continuously for more than 10 years
- D. Any licensed amateur

General (Element 3)

G5A04

Which of the following causes opposition to the flow of alternating current in a capacitor?

- A. Conductance
- B. Reluctance
- C. Reactance
- D. Admittance

Amateur Extra (Element 4)

E5B10

What is the relationship between the AC current through an inductor and the voltage across an inductor?

- A. Current leads voltage by 90 degrees
- B. Voltage and current are in phase
- C. Voltage and current are 180 degrees out of phase
- D. Voltage leads current by 90 degrees

See the answers on [Page 27](#).

The ARRL Letter

An excerpt from the weekly ARRL Letter

2023 Hamvention Awards Announced

The 2023 Hamvention Awards committee for Dayton Hamvention® has announced this year's award winners.

The Special Achievement Award recipient is Dr. Jason McDonald, N2TPA

Dr. McDonald began a career as a radio frequency engineer before becoming a trauma surgeon. He brings amateur radio to the world through youth projects and Scouting, particularly through Radio Scouting.



Dr. Jason McDonald, MD, N2TPA.

He has helped form Scouting clubs around the world. To date, more than 500 youths in these clubs have become licensed and are on the air.

The Amateur Radio Club of the Year is the Delaware Valley Radio Association (DVRA). This ARRL Affiliated Club was formed in 1930 and serves the Trenton,



Did you know...

that the ARRL sends a weekly letter describing some of the current events, activities, and policies that are taking shape in the Amateur Radio world? The following is an excerpt from these letters in January. View all the ARRL letters at <http://www.arrl.org/arrlletter>

New Jersey, area. DVRA has tripled in size over the last 6 years, due to the wide range of amateur radio activities and events they offer.

The Technical Achievement Award recipient is Dr. James Breakall, WA3FET.

As a Professor of Electrical Engineering at Penn State University from 1989 to 2022, Dr. Breakall developed cutting-edge antenna technology and mentored his students in amateur radio. Through his mentorship, he inspired 700 of his students to become new licensees. Now a retired Professor Emeritus, he serves as a consultant to the Army, Air Force, and Navy on many antenna-related projects.



Dr. James Breakall, WA3FET.

Amateur of the Year 2023 is Carsten Dauer, DM9EE.

For 30 years, Dauer has been active in European amateur radio through the World Radiosport Team Championship and Youth on the Air.



Carsten Dauer, DM9EE.

Recently, he spearheaded a movement that provides amateur radio equipment to Ukraine by collecting donations and personally delivering them.

You can read more about the 2023 Hamvention Awards at their [website](#) or at [ARRL.org](#).

Dayton Hamvention® is May 19 - 21, 2023 at the Greene County Fairgrounds and Expo Center.

AMSAT Recruiting Engineering Volunteers

AMSAT is looking for an electrical engineer with RF experience to join its FOX-PLUS team. The team will be a collaboration of up to 10 electrical, mechanical, software, and systems engineer volunteers.

There will also be an opportunity to design and build the RF communications subsystems for a series of low-Earth orbit 1U - 3U CubeSats to support AMSAT's educational and engineering objectives.



Candidates should have working knowledge of analog and digital communications protocols (e.g., FM, PSK, and FSK) to provide digitally synthesized audio for FM modulated VHF/UHF/SHF voice and telemetry channels. Development opportunities can begin with modification of previous FOX designs and/or with an original design.

Mechanical engineers are also needed to join AMSAT's FOX and GOLF CubeSat teams. There will be a collaboration with an all-volunteer team of up to 12 electrical, mechanical, software, and systems engineers. The positions entail an opportunity to use structural design and analysis skills to develop a series of low-Earth orbit and highly elliptical orbit 1U - 3U CubeSats.

Contributions may include:

The development of the space frame and deployable solar panel subsystem

The analysis of the thermal characteristics of the CubeSat and the design of the thermal management system

Preparation and oversight of the environmental testing procedure

Management of documentation of the CubeSat's adherence to the launch provider's and space vehicle owner's specifications

AMSAT volunteers typically spend 5 hours per week on their projects and attend a weekly meeting online. An amateur radio license and CubeSat experience are helpful, but not necessary. US citizenship or proof of permanent residency is required.

Interested persons should send an email with their resume/curriculum vitae to volunteer@amsat.org.

- Thanks to AMSAT Assistant VP, Engineering Jonathan Brandenburg, KF5IDY, for the above information.

Radio Merit Badge Sees Biggest Gain in Scouting

According to a Scouting magazine study of Merit Badges earned in 2022, Radio had the biggest jump.

It is now the 81st most popular Merit Badge, up from being 98th in 2021. Trailing just behind it on the biggest gains list is the Electronics Merit Badge, which jumped 15 spots, from 80th to 65th. To earn the rank of Eagle Scout, members must earn 21 badges, 14 of



Special event station K4S in Jasper, Tennessee, 2018 photo; Radio Scouting.

which are standard. The Scout gets to choose the remaining badges based on personal interests.

Many Scouts take part in Jamboree on the Air, which is being held October 20 - 23, 2023.

ARRL International DX Contest a Success

Last weekend (March 4 - 5, 2023) was the phone segment of the ARRL International DX Contest.

Although the deadline to submit logs is 2359Z on March 12, preliminary numbers already show an increase in submissions compared to the same period last year. Conditions were favorable for much of the world, and many operators took to social media to talk about their wins.



Some of the operators hitting the airwaves for the 2023 ARRL International DX Contest included ARRL CEO David Minster, NA2AA (foreground) from PJ4G, "Radio Mountain Bonaire."

Italian ham Chris Diemoz, IX1CKN, wrote in to express his gratitude for the contest, saying, "I haven't come back to the US since 2001, but... I [count last] Sunday afternoon [as] a true trip to the States, from east to west." Diemoz made 80 contacts in the US.



From his parked car in Ozein, Italy, Diemoz operated during the contest using QRP power from a Xiegu G90 transceiver and an Outback-1899 HF antenna. He enjoyed making a lot of contacts on 10 and 15 meters, which are opening due to Solar Cycle 25. He made a video with some of his QSOs and posted it to YouTube. Click on the screenshot above or [click here to view the YouTube video](#).

2023 Ulrich L. Rohde Award Call for Papers

The Software Defined Radio Academy (SDRA) has issued a call for papers for the 2023 Ulrich L. Rohde Award. This award, named after Dr. Ulrich L. Rohde, N1UL, was created in 2022 and is presented to those who have completed innovative research in the field of software-defined radio (SDR). It's a paper award that requires a written submission by applicants. There are first - second - and third -place winners who are awarded €500 (\$527), €300 (\$316), and €100 (\$105) respectively.

All submitted papers are eligible for the award. The deadline for the abstract submission is April 30, 2023, and the acceptance notification date is May 15, 2023. The Award Committee for 2023 includes:

- Dr. Michael Hartje, DK5HH, HS Bremen
- Dr. Michael Niemetz, DG2RAM, OTH Regensburg
- Dr. Hervé Boeglen, Univ. Poitiers (European GNURadio Days)
- Dr. Jean-Michel Friedt, FEMTO-ST, Univ. Besancon (European GNURadio Days)

Dr. Rohde is an avid amateur radio operator, holding several licenses in the US and Germany. He has been licensed since 1956, and is mostly involved in technology and systems. In 2015, he won first place in the ARRL DX Contest in the Northern New Jersey Section. He also operates N1UL/MM on his yacht, the Dragonfly, and is Trustee of the Marco Island Radio Club, K5MI.

Rohde holds 50 patents, and in December 2016, he was invited to deliver the Sir J.C. Bose Memorial Lecture on "Next-Generation Networks: Software-Defined Radio -- Emerging Trends," at the IEEE meeting in Hyderabad, Telangana India, in the fourth edition of Communications Receivers: Principles and Design, Rohde and his co-authors set SDR at the core of modern communications systems design.

For additional information on the Ulrich L. Rohde Award, including how to send an award for submission and other award categories, visit the [Software Defined Radio Academy](https://www.sdracademy.com/) website.

Amateur Radio Digital Communications Awards \$420,000 to the FreeDV Project

Amateur Radio Digital Communications (ARDC) has awarded a \$420,000 grant, one of the first for 2023, to develop and document FreeDV, an open-source amateur radio technology. The grant will be used to help advance the state of the art in HF digital voice and promote its use.

FreeDV is a graphical user interface application for Windows, Linux, and macOS that allows any SSB radio to be used for low-bit-rate digital voice. Speech is compressed down to 1600 bits/second, then modulated onto a 1.25 kHz wide 16 QPSK signal, which is sent to the microphone input of an SSB radio. The technology was initially developed by David Rowe, VK5DGR. Now, an international team of radio amateurs are working together on the project.



Among the many opportunities for FreeDV, the ARDC grant will also allow:

- Experienced digital signal processing developers to work with the volunteer staff to improve speech quality and low signal-to-noise ratio operation, making FreeDV performance superior to SSB over poor HF channels.
- Commercial HF radio companies to embed FreeDV into at least two commercial radios, greatly reducing set up effort and latency.
- Widespread adoption of a truly open-source, next-generation digital voice system for HF radio.
- A mature, open-source low-bit-rate codec that's useful for a variety of amateur radio and commercial applications.
- A suite of high-performance, HF data modems for open-source data applications, usable by any radio amateur.

To learn more about the technical specifications of FreeDV, go to <https://www.freedv.org>.

[ARDC](https://www.ardc.org/) is a California-based foundation with roots in amateur radio and the technology of internet communication.

Tornado Season and Amateur Radio

Tornado season is fast approaching, and amateur radio operators will again play a key role in helping the National Weather Service (NWS) issue accurate and timely warnings. In fact, March through May is considered the most active period for tornadoes to develop.

The NWS reports there have already been 255 preliminary filtered reported tornadoes and 213 confirmed tornadoes in the United States in 2023. Worldwide, nine tornado-related deaths have been confirmed, all of them in the United States.

January saw the third-highest number of tornado watches and confirmed tornadoes of any January on record in the United States. Additionally, the first two months of the year saw the fourth-highest

number of confirmed tornadoes for the first 59 days of any year on record.

The SKYWARN®

([weather.gov](https://www.weather.gov)) Storm Spotter Program is available to anyone interested in helping the NWS track and report potentially dangerous weather. Anyone can become a SKYWARN weather spotter, and the information is available at the SKYWARN



website. Most states have amateur radio networks that are activated during severe weather. Trained volunteers use their radios to report rapidly changing activity and share the information with local weather offices. A list of the states that have scheduled special weather awareness activities can be found at the [NWS Awareness and Preparedness Calendar \(weather.gov\)](#).

The NWS Forecast office in Norman, Oklahoma, uses amateur radio as one method of communicating with spotter groups and emergency management organizations. For decades, amateur radio operators have provided invaluable service in support of the SKYWARN storm spotter program by using their unique communications capabilities to share critical information between the NWS, the local emergency management officials, and storm spotter networks.

In 1999, the NWS, along with ARRL, founded SKYWARN Recognition Day to honor the voluntary contributions of thousands of amateur radio operators who play a critical role in keeping the public safe and informed about severe weather conditions. The day is celebrated on the first Saturday in December, and amateur radio spotters can earn awards for participating.

The 2022 NWS Spotter of the Year Award was given to Bryan Loper, WX5CSS, of Atlanta, Texas. The award noted that Loper is very active with the

amateur radio network and weather community within the Arkansas/Louisiana/Texas region, and is always reliably providing weather reports. Loper is an ARRL member.

To learn more about amateur radio licensing and SKYWARN visit [ARRL.org](https://www.arrl.org).

Dayton Amateur Radio Leader Ron Cramer, KD8ENJ, Silent Key

Ron Cramer, KD8ENJ, of Dayton, Ohio, passed away on Saturday, March 11, 2023.

He was Vice President of the Dayton Amateur Radio Association (DARA) and previously served as its President.

Cramer was General Chairman of Dayton Hamvention®, the world's largest annual gathering of radio amateurs, from 2017 to 2018. In 2017, he was among the Hamvention leadership and team who helped successfully relocate the event to its current venue at the Greene County Fairgrounds and Expo Center in Xenia, Ohio, after 52 years at Hara Arena. In 2019, the event would go on to host the ARRL National Convention in Xenia.



Ron (Ronald Eugene) Cramer, KD8ENJ, SK | 1947 - 2023

"Ron was one of the most active members of DARA and Hamvention and was extremely well liked and respected," included a message from the DARA Board. "Please keep him and his family in your prayers." Cramer is survived by his wife of 49 years Liz (Ann Mergler).

"I was the Assistant General Chair of Hamvention (Ron's assistant) the year we moved we moved it to Xenia," shared DARA President Jack Gerbs, WB8SCT. "It was a stressful time but it was also a very exciting

time for the team. There is no way Ron can ever be replaced. He was a hardworking, dedicated, wonderful person who had a positive impact on everyone he encountered. His only fault was, he would never say no. I am looking forward to catching up to Ron, in that great shack in Heaven! Rest in peace my friend!"

"Ron was a good friend of ARRL, and one of the kindest and most committed member-volunteers I've known throughout my years in amateur radio," said ARRL Director of Marketing and Innovation Bob Inderbitzen, NQ1R. "Ron supported many years of ARRL's participation at Hamvention. Most recently, he coordinated Hamvention's interest in hosting the 2024 ARRL National Convention. He'll be close in the hearts and minds of many of us as the convention is planned. I'll miss him dearly."

An [obituary](#) is available from Baker-Hazel & Snider Funeral Home, Dayton, Ohio.

State Proclamations Recognize Amateur Radio

Several states, counties, and communities across the US have officially recognized the public contributions of amateur radio in advance of [World Amateur Radio Day](#) (WARD) on April 18.

Connecticut Governor Ned Lamont has released an official statement designating April 16 - 22, 2023, as Amateur Radio Recognition Week. Members of the [Meriden Amateur Radio Club](#) (MARC) in Connecticut pursued the proclamation with the Governor's office. "We want the public to know that many of their friends and neighbors are amateur radio operators," said MARC President Ed Snyder, W1YSM. "Amateur radio is a worldwide community of volunteers who use their knowledge and skills to serve our communities," added Snyder.

Snyder said that his radio club participates in many outreach activities to help introduce ham radio to the public. Club members support demonstrations

for schools, student groups, and scouts. The club also provides communications support for the National Weather Service storm spotting program, SKYWARN®, and an annual cycling event that benefits the Hole in the Wall Gang Camp. An annual scholarship is awarded to a deserving, local high school senior.

Snyder also cited the club's involvement with training members to provide emergency communications when disasters or other incidents damage or disrupt critical communications infrastructure, including cell towers. MARC is closely linked with the Wallingford Fire Department and the town's Medical Reserve Corps (MRC), and holds its monthly meetings at the Wallingford Emergency Operations Center.

"There are over 40 radio clubs in Connecticut. We're grateful for the Governor's recognition of our amateur radio community," noted Section Manager of the ARRL Connecticut Section Bud Kozloff, W1NSK.



Connecticut Governor Ned Lamont has designated April 16 - 22, 2023, as Amateur Radio Recognition Week.

A similar resolution was made by the Maine State Legislature, recognizing April 18, 2023, as World Amateur Radio Day, and acknowledging "the accomplishments and public service provided by amateur radio operators." The resolution was advanced by ARRL Maine Section Manager Phil Duggan, N1EP. Duggan said he pursued the resolution on behalf of all radio amateurs in the state of Maine.

The March issue of [ARRL Club News](#) encourages radio clubs to seek local government proclamations to build relationships and foster recognition for club events, and amateur radio in general. Proclamations

are typically sought leading up to World Amateur Radio Day and ARRL Field Day. Radio clubs and other amateur radio groups are encouraged to share a copy of their proclamations with ARRL via pr@arrl.org. ARRL will often share the proclamations to advance legislative efforts, creating additional support of awareness for amateur radio among lawmakers.

Read the full text of the proclamations at [ARRL News](#).

Amateur Radio Included in FEMA Guide for National Emergency Preparedness

The Federal Emergency Management Agency (FEMA) has released a final version (March 2023) of the National Incident Management System (NIMS) Information and Communications Technology (ICT) Functional Guidance. The guidance, which provides a framework for communications resources within incident management, officially includes support from amateur radio operators. The expanded Communications Unit (COMU) structure now includes the Auxiliary Communicator (AUXC) role, which covers personnel from services that provide communications support to emergency management, public safety, and other government agencies. This includes amateur radio.

NIMS guides government, non-governmental organizations, and the private sector to work together to prepare for, respond to, and recover from disasters and other emergencies. "This is a major step in the recognition of the need and usefulness of amateur radio and other communications services in our national preparedness," said Josh Johnston, KE5MHV, Director of Emergency Management for [ARRL The National Association for Amateur Radio](#)[®]. "It also gives official guidance to pave the way for future



training and education of volunteers in ARRL's [Amateur Radio Emergency Service](#)[®] (ARES[®])," Johnston added.

The NIMS ICT guide (PDF) is available at https://www.fema.gov/sites/default/files/documents/fema_ict-functional-guidance.pdf.

New Chief Named for Air Force Military Auxiliary Radio System

David L. Antry, Jr., WD9HBA, has been named Chief of the Air Force Military Auxiliary Radio System (MARS).

MARS is a Field Operating Agency of the US Air Force's Air Combat Command (ACC) and HQ Cyberspace Capabilities Center (CCC).

Prior to his new assignment, Antry served as a Logistics Manager in the 635th Supply Chain Operations Wing War Reserve Materiel Program Integration Office.

He enlisted in the US Air Force in January of 1985 and worked in Avionics. He received a Palace Chase assignment in 1989 and spent the rest of his uniformed career working in Avionics and Supply for the Air National Guard.



*David L. Antry, Jr.,
WD9HBA, Chief, Air
Force Military Auxiliary
Radio System (MARS).*

Antry retired from the 126th Air Refueling Wing at the Scott Air Force Base in October 2011 with the rank of E-7, Master Sergeant. In addition to his daily Air Force duties, Antry has voluntarily served with Air Force MARS since November 2012 as a member of the amateur radio community, operating both Very High Frequency (VHF) and High Frequency (HF) radio equipment.

Prior to being named Chief of MARS, he served as Operations Officer for the 51st Air Force MARS Communications Group.

Reid Snider, N4SPY, Public Information Officer of US Air Force MARS, said Antry brings with him a broad skill set for MARS operations. "Chief Antry has the understanding, knowledge, ability, and respect to help Air Force MARS plan and position its programs for communications of [the] future," said Snider.

Today, US Air Force MARS is an organization of about 800 licensed amateur radio operators who volunteer their time and radio equipment to assist government agencies in the event that normal communications channels are disrupted, either by natural calamity or deliberate hostile action.

MARS members are trained to meet the requirements of any communications emergency. In recent years, greater interoperability between the Air Force and the Army has facilitated accomplishment of this objective. Individual civilian MARS stations operate throughout the continental US alongside civil agencies and military MARS stations in the US and overseas.

Antry will be stationed at the Scott Air Force Base in Illinois. He has been a licensed amateur radio operator since 1977.

For more information about [Air Force MARS](#), visit their website.

World Amateur Radio Day is April 18

In less than a month, 2023 World Amateur Radio Day (WARD) will be celebrated, literally, around the world!

WARD is held on April 18 every year and is celebrated by radio amateurs and their national associations which are organized as member-societies of the



International Amateur Radio Union (IARU). It was on this day in 1925 that the IARU was formed in Paris. American Radio Relay League (ARRL) Co-Founder Hiram Percy Maxim was its first president.

The IARU [announced previously](#) that Human Security for All (HS4A) will be this year's World Amateur Radio Day theme. The day is being celebrated with a 2-week operating event occurring April 11 - 25. Special event stations will be operating from around the world, making two-way radio contacts to call attention to the HS4A campaign. The United Nations Trust Fund for Human Security describes 'human security' as "a more powerful, lasting approach to the most difficult deficits in peace and development," such as poverty, war, and natural disasters.

ARRL encourages all radio amateurs to take to the airwaves for WARD, to enjoy our global friendship with other amateurs, and to show our skills and capabilities to the public.

More information about 2023 World Amateur Radio Day is available at www.arrl.org/world-amateur-radio-day and www.iaru.org/on-the-air/world-amateur-radio-day.

Amateur Radio Activity Honors African American Heritage

Parks on the Air® (POTA) sites that honor African American heritage are the focus of a casual operating event organized by the OMIK Amateur Radio Association, Inc (OMIK). The [OMIK POTA Challenge 2023](#) will run from April 1 to December 31.



OMIK was founded in 1952 by black amateur radio operators. While it is still a predominately African-American organization, today it represents a multi-racial, multi-cultural organization with members from the US and around the globe. OMIK is an ARRL Affiliated Club.

The group hopes to attract at least 750 radio contacts for the program by the end of the year. All modes permitted by the POTA program are eligible. OMIK members are encouraged to activate sites using the OMIK club call sign, K0MIK. The club's call sign must be reserved at least a week in advance.

The group has a list of suggested sites that are known to have a significant role in African American history. They hope that at least five unique national parks will be activated as part of the event, contributing to a total of at least 10 successful activations.

[Parks on the Air](#) is a movement to get radio amateurs to set up portable operations in recognized park locations. It promotes a culture of operators who make as many contacts as possible from and with such locations.

HamCation 2023 Attendance Update

Orlando HamCation announced the attendance number for this year's 76th annual event, which was held February 10 - 12 at the 87-acre lakefront Central Florida Fairgrounds and Expo Park.

This year's attendance was the third largest for HamCation, at 21,830.

HamCation organizers reported the weather was great during show hours and the rain held off each night until after closing.

A big thank you was issued to all the sponsors, volunteers, visitors, and vendors for their participation, dedication, and making HamCation a true five-star event.

Planning is already underway for next year's HamCation, which will be held February 9 - 11, 2024. Dates have already been set for the following three years:

- HamCation 2025: February 7 - 9

- HamCation 2026: February 13 - 15
- HamCation 2027: February 12 - 14

For more information, visit the [HamCation](#) website.

ARRL Announces Leadership Changes in the Hudson Division

ARRL Director Ria Jairam, N2RJ, who has represented the [Hudson Division](#) since 2019, has stepped down, effective March 31, 2023, at 5 PM Eastern.

Vice Director Nomar Vizcarrondo, NP4H, of Englewood, New Jersey, will accede to the Director's chair. Vizcarrondo, who earned his amateur radio license in 1978 at the age of 11, will serve as Director for the remainder of a 3-year term ending December 31, 2024. He was appointed as Vice Director of the Hudson Division in February 2022, following the retirement of previous Vice Director William Hudzik, W2UDT, who held the position from 2011 to 2022.



ARRL President Rick Roderick, K5UR, will announce a successor to Vizcarrondo to fill the vacant Vice Director's seat. The ARRL Hudson Division is comprised of the ARRL Sections of Eastern New York, New York City - Long Island, and Northern New Jersey.

ARRL Podcasts Schedule

The latest episode of the ARRL [On the Air](#) podcast (Episode 28) features a discussion of digital multimeters with practical usage examples and shopping tips.





The latest edition (Episode 58) of the ARRL [Eclectic Tech](#) podcast features a discussion with author Nick Tusa, K5EF, about his new book *Wes Schum - Amateur Radio's Unsung Hero*.

The On the Air and Eclectic Tech podcasts are sponsored by Icom. Both podcasts are available on iTunes (iOS) and Stitcher (Android) as well as on Blubrry -- [On the Air](#) | [Eclectic Tech](#).

Amateur Radio in the News

ARRL Public Information Officers, Coordinators, and many other member-volunteers help keep amateur radio and ARRL in the news.

["Amateur radio enthusiasts ham it up in Milford"](#) / The Daily (Connecticut), February 23, 2023. The Woodmont Amateur Radio Association is an ARRL Affiliated Club.

["From Social Activity to Lifeline: Thermal Belt Amateur Radio Club"](#) / Tryon Daily Bulletin (North Carolina), February 23, 2023. The Thermal Belt Amateur Radio Club is an ARRL Affiliated Club.

["Columbiana HS student presents at amateur radio conference"](#) / Salem News (Ohio), February 23, 2023. Columbiana High School Amateur Radio Club.

["Astronauts will be reached by students with Amateur Radio"](#) / KHON (Hawaii), March 5, 2023 -- The Lana'i High and Elementary School.

["Steubenville-Weirton Amateur Radio Club donates books to library system"](#) / Herald - Star (Ohio), March 8, 2023. The Steubenville-Weirton Amateur Radio Club is an ARRL Affiliated Club.

["Free amateur radio instruction offered in Stillwater"](#) / Twin Cities Pioneer Press (Minnesota), March 6, 2023 -- The Stillwater Amateur Radio Association is an ARRL Affiliated Club.

["Amateur radio system expands in Calvert County"](#) / Southern Maryland News (Maryland), March 11, 2023 -- The Calvert Amateur Radio Association is an ARRL Affiliated Club.

["Out of this world! Lanai kids get picked for live Q&A with ISS astronauts"](#) / Hawaii News Now (Hawaii), March 14, 2023, --The Lanai Elementary School.

["Dayton leader of world's largest gathering of radio amateurs dies"](#) / Dayton Daily News (Ohio), March 18, 2023 --The Dayton Amateur Radio Association is an ARRL Affiliated Club.

["Amateur radio operators like Bob McArthur of New Ipswich make connections"](#) / Monadnock Ledger -- Transcript (New Hampshire), March 22, 2023 -- Bob McArthur, K1QT.

["Ham radio kept Upland man connected during pandemic"](#) / The Sun (California), March 23, 2023 - Michael Guerin, W6MVT, of Upland California, is an ARRL Member.

["FCC grants seven new amateur radio operator licenses to Caribou residents"](#) / The Country (Maine), March 24, 2023 -- Caribou Radio Amateur Civil Emergency Service.

Arrl.org. 2023. ARRL Letter. [online] Available at: <http://www.arrl.org/arrlletter?issue=current> [Accessed 2 April 2023]

NARS Monthly Club Meeting

February Club Meeting

In February, Rich Jones, W5VEK, gave a talk about setting up high performance wire antenna in residential locations. Rich taught us about all aspects of hanging an antenna, feed line practices, and his experiences with them.

Take a look at past presentations by viewing the club website at <http://www.w5nc.club/nars/index.php/club-info/technical-presentations>.

Next Club Meeting

Our next club meeting will be March 17th at the Klein Fire Station #3 Training Facility. We look forward to seeing you there!

NARS General Club Meetings

NARS holds monthly club meetings where a variety of topics are presented from a number of guests. Come learn anything from antenna design, phasing, emergency response, and more!

Who: All club members, friends, or anyone interested in the Amateur Radio hobby

When: The Third Friday of the Month at 7:30pm

Where: Klein Fire Station #3, [9755 Landry Blvd, Spring, TX 77379](#)
Zoom Conference Call, Meeting ID: 2815436502, Passcode: 123456

NARS Trailer Wrap Completed

BY PAUL KENT, KI5FJS

After months of hard work and anticipation, the trailer wrap is complete!

Several people have been involved with the trailer renovation and I'd like to give each a special thanks.

First, we appreciate and thank John Parmalee, K5VGM, for making the suggestion for the initial concept of the trailer.

A special thanks to the club membership for the volunteers who stepped up to make this team and develop/evolve this concept into something we all can be proud of.

Team Members:

- Steve Stepinoff
- Mike Pate
- David Meine
- Mike Wilson
- Ron Matusek

For the exterior, the team wanted something flashy to draw attention to our hobby and club with kids of all ages. We were able to get some special help from Steve Stepinoff, KG5VUG, as our main exterior concept designer. Steve's pen and ink sketches were fantastic. Mike Pate, K5MAP, who offered support and suggestions to the design, successfully got the actual wrap donated to the club, which was a huge cost savings. David Meine, KI5MJD, and Mike Wilson, KC5MW, worked on the initial interior concept, which is still evolving and will be a main focus as Phase II moves forward. Ron Matusek, WA6TQH, for his support and the Board for their vision and financial backing to move the project forward.

A special thanks to Keith Dutson, NM5G, who put Steve and me in touch with NASA's amateur radio group. Through this contact we were allowed us to use photos of the International Space Station with astronauts who were trained by Keith.

All in all, I think you will see a bit of all of us on the trailer. On to Phase II!



At the next general meeting, there will be an opportunity to see the trailer in person and we invite you to talk with Paul Kent, KI5FJS, to discuss the next phase of enhancements.



Call for Help

Scouts BSA, Sam Houston Area Council (SHAC)

The Sam Houston Area Council (of Scouts BSA - formerly known as Boy Scouts of America) has several upcoming Merit Badge Fairs. They would like to offer the Radio Merit Badge class at each of these events, and they have a number of interested scouts already signed up.

Requirements for earning the Radio Merit Badge are here: https://filestore.scouting.org/filestore/Merit_Badge_RegandRes/Radio.pdf

There are several slide decks available for instructors, as well as a workbook, but the resources could use refining prior to the next class, I'm told. Recent volunteers told us that the slide deck they used went in a slightly different order than the workbook, which cost them some valuable time. (I think these are all 6-hour classes, and there's a lot of material to cover.)

We have a loosely organized team working on putting together an info packet for the kids who are interested, including how to find and participate in a POTA event (requirements for the merit badge include visiting a radio station and making QSOs, which can be - but don't have to be - covered in the classes) and how to study for the ham exams, where to find exams sessions, how to get in touch with local ham radio clubs, etc.

We've learned that it works best to have at least 2 and preferably 3 teachers in the room. All the instructors will need to take (free, online) Youth Protection Training prior to participating, and at least one will need to become a merit badge councilor (which involves filling out some paperwork).

We're looking for volunteers for the dates below, but also looking to build a team of interested parties, as we expect there will be other opportunities to teach the class not listed here throughout the year.

Known dates so far:

- April 15 @ SHAC HQ; contact is Sophia Hwang - shstevens71@gmail.com

Someone in the room will need to be a registered Merit Badge Councilor, and all may need to be registered with BSA. Ross and Sophia can help with the process.

If you are interested, please reach out to Sophia directly.

WAJA: Worked All Japan prefectures Award

Terry Myers, KQ5U, recently earned this award and shares with the club about the award and some hints to achieving the accomplishment.

The Japan Amateur Radio League (JARL) is the Japanese counterpart to the American Radio Relay League (ARRL), and it supports amateur radio operators, not only in Japan, but also around the world. One of the ways that JARL promotes amateur radio is through its awards program, which is similar to the ARRL awards program.

One such award is the "Worked All Japanese prefectures Award" (WAJA), which is roughly equivalent to the "Worked All States" (WAS) award in the United States. We are pleased to announce that on March 10, 2023, one of our members, Terry Myers (KQ5U), earned the WAJA award. Congratulations, Terry!



To earn the WAJA award, one must submit an application and proof of your QSOs with the JARL authority. The rules for all of JARL's awards can be found at https://www.jarl.org/English/4_Library/A-4-2_Awards/Award_Main.htm and consist of the following:

1. JARL awards will be issued to amateur stations and SWLs.
2. Each claim must be accompanied by a QSL Card List furnished with the call signs of stations worked (heard), dates, bands and modes of the contacts (receptions) meeting the requirements of the award concerned. The form of list will be specified, when required, in the rules of each award.
3. Each list must be accompanied by a statement of the applicant himself/herself making an oath that the QSL cards of the contacts listed are in the possession of the applicant and that the items of the cards are correctly listed.
4. Fees

Title		Japan		Foreign
		Members	Non-Members	
Awards		1,000JP-Yen	2,000JP-Yen	16 IRCs / US\$(Equivalent to 2,000JPY)
Endorsment Sticker	AJA WASA JCC JCG	500JP-Yen	1,000JP-Yen	8 IRCs / US\$(Equivalent to 1,000JPY)
Plaque	WACA WAGA HACA HAGA	5,000JP-Yen	10,000JP-Yen	10,000JPY / US\$(Equivalent to 10,000JPY)

5. Applicants can request for maximum three of the following four endorsements:
 - Bands (All contacts made within the same band): All amateur bands
 - Modes (All contacts made in the same mode): CW, AM SSB, FM, SSTV, Digital, ATV, FAX
 - Satellites (All contacts made through Amateur Satellite)
 - QRP (All contacts made through transmitters with OUTPUT of 5 watts or less)
 - QRPP (All contacts made through transmitters with OUTPUT of 0.5 watts or less)
6. Only contacts (receptions) made on and after July 29, 1952 will be acceptable.
7. Only contacts with land stations (including mobile stations on a river or lake) will be acceptable. Those with maritime and aeronautical stations, however, will be acceptable for the 50MHz-100, 144MHz-100, 430MHz-100, 1200MHz, 2400MHz, 5600MHz, 10GHz, 24GHz, 47GHz, 75GHz and VU-1000 awards.
8. Only contacts with amateur stations authorized by the administration will be acceptable. Contacts with the Far East Military Auxiliary Stations in Japan will not be acceptable.

9. All contacts must be made on land (river/lake) within the same Entity.
10. All correspondence should be sent to:

Japan Amateur Radio League - Award Desk
 3-43-1 Minamitsuka, Toshima, Tokyo 170-8073, JAPAN
 award(at)jarl.org

✳️Note

- ◆ Please note that you don't need to send the QSL cards.
- ◆ eQSL ■■■ If you can print received eQSL, we can accept it.
- ◆ LoTW ■■■ We can accept LoTW confirmation as a QSL. (assuming RST report or equivalent is implicitly included in the LoTW confirmation.)

Terry is excited to share some tips and tricks to help others that wish to apply for the award:

- The JA call sign numeral is helpful for getting into the right call area, but the right prefecture is just a little different. Use the map at this link to decode the call sign prefix with the right area: https://www.jarl.org/English/4_Library/A-4-2_Awards/waja_map.pdf

- The prefecture numbers shown on the map are are reflected in the LotW confirmation link.

As example, the image below shows a LoTW confirmation for the Tokyo prefecture in Terry’s file.

You may notice the “Prefecture” field with the value of “Tokyo-to (10)”. The number 10 in this field reflects the prefecture number on the map at the link above. This greatly assists in ensuring that you qualify for the award, even if you can’t speak Japanese.

Station	
Call Sign	J1TYA
DXCC	JAPAN (339)
CQ Zone	25
ITU Zone	45
Grid	PM95RO
Prefecture	Tokyo-to (10)
City / Gun /Ku	Machida-shi (1010)
Worked Station	
Worked	KQ5U
DXCC	UNITED STATES OF AMERICA (291)
CQ Zone	04 (Inferred; user did not specify zone)
ITU Zone	07 (Inferred; user did not specify zone)
Grid	EM20HB
State	Texas (TX)
County	Harris
Date/Time	2020-03-12 12:50:00
Mode	FT8 (DATA)
Band	80M
Frequency	3.57382
QSL	2023-04-01 07:35:21
Record ID 1686776049 Received: 2023-04-01 07:35:21	

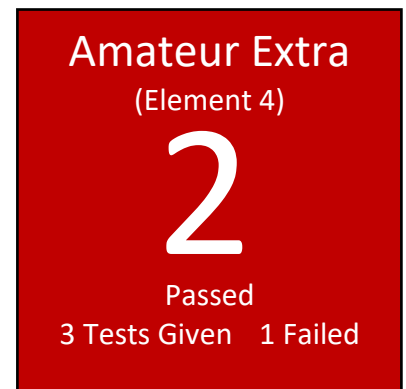
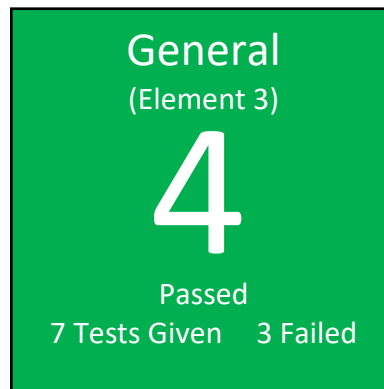
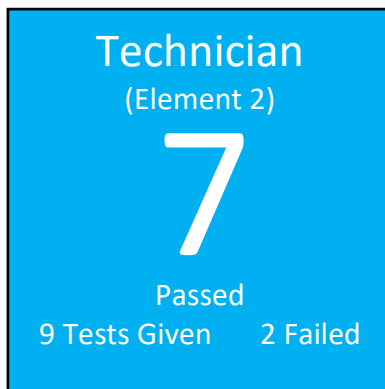
In conclusion, we hope this article inspires you to explore the world of international awards with JARL and others. Congratulations again to Terry on his achievement, and we wish you all happy DXing.

VE Sessions and Results

PROVIDED BY SHEREE HORTON, WM5N

Attendees

On Saturday, March 18, 2023, a VE Test Session was held at Klein Fire Station #3 in Spring, Texas. During the testing session, 12 candidates took 19 tests.



Congratulations!

Congratulations to the following for passing their new license exams¹:

- Cherry Castagnola – Technician
- John Mark Castagnola (youth) – Technician
- Matthew Stevens – Technician
- Geoffrey Rogers - General
- Patrick Miceli – Technician
- Manuel Lazo (youth) – Technician
- Geoffrey Hall – General

Congratulations to the following for passing their upgrade exams:

- Steven Heidrich KJ5AAI – Upgrade to General
- Kyle Jarnagin KD5QHD – Upgrade to General
- Jahangir Huseynov – Upgrade to Extra
- Dale Schmirler – Upgrade to Extra

¹ Successful candidates will only receive their **NEW** licenses if they pay the \$35 fee to the FCC within 10 days of receipt of their notification emails. They will have to request the ARRL VEC to resubmit their paperwork if they miss the 10-day deadline. They do **NOT** have to retest.

Pre-registration for Testing Sessions

To pre-register for an upcoming testing session, you can use one of the following links:

HamStudy.org page link: <https://hamstudy.org/sessions/arri/77070/inperson>

The next session will be April 22, 2023. Please visit www.w5nc.net for the announcement.

Thanks and Gratitude

Thanks to the Exam VE's in attendance:

- Michael Robinson KI0DE²
- Synomen Hebert KG5IRS
- Brett Hebert KG5IQU
- Marvin Wilken KT4W
- Bob Ewers K9HOU
- Paul Owen N5NXS
- Vicki Owen AC5EW

²Assistant Session Manager

VE Session Guidelines

If you have a temperature or feel ill – DO NOT attend.

- Tables and chairs will be arranged to meet social distancing. DO NOT MOVE THEM.
- Wear masks if you are not fully vaccinated or feel the need to wear them.

Please send an email to either of the following if you plan on attending the test session:

Sheree Horton - wm5n@arri.net or vec@w5nc.net

Volunteering and Becoming a Volunteer Examiner

Anyone who wants to observe and/or participate in a session is always welcome. Please let Sheree Horton know if you want to learn more about becoming a volunteer examiner.

Did you know...

NARS now has the ability to run computer-aided tests through [Ham.Study](https://hamstudy.org). Computer-aided tests provides many benefits, including the ability to make the tests easier to administer, quicker to get results, easier for many test-takers, and many more!

Renewing Club Members

Renewing Club Members

Thank you to all the members who renewed their NARS membership this past month:

- Norm Covey, K5OS
- Mike Hvasta, KF5IUM
- Mike Lodge, K7LEX
- Schalee Lodge, KD5WLL

NARS Membership – Due Dates and More



Did you know that you can find your membership expiration date on the club website? Simply click the “Membership Reports” link on the home page or visit this link: <http://www.w5nc.club/nars/index.php/2014-03-30-18-23-31>. Find your name in the list and look at the “Expires” column of the table!

New General Question Pool Released for Ham Radio Licensing Effective July 1, 2023

The National Conference of Volunteer Examiner Coordinators' (NCVEC) Question Pool Committee (QPC) has released the 2023 - 2027 General Class FCC Element 3 Syllabus and Question Pool to the public. The new General Question Pool is effective July 1, 2023, through June 30, 2027.

The new pool incorporates some significant changes compared to the 2019 - 2023 version. Its 432 questions were modified slightly to improve wording and to replace distractors; 51 new questions were generated, and 73 questions were eliminated. This resulted in a reduction of 22 questions, bringing the total number of questions in the pool down from 454. The level of difficulty of questions is more balanced, and the techniques and practices addressed have been updated.

The pool is available as a Microsoft Word document and PDF. The single graphic required for the new General Question Pool is available within the documents, or separately as PDF and JPG file formats.

The newly revised pool must be used for General-class license exams starting July 1, 2023," said ARRL VEC Manager Maria Somma, AB1FM, who is a member of the NCVEC Question Pool Committee. "New test designs will be available to ARRL Volunteer Examiners on that date. The ARRL VEC will supply its officially appointed, field-stocked VE teams with new General exam booklet designs around mid-June."

General class examination candidates preparing for their exams using the 9th edition of The General Class License Manual, and/or the 6th edition of ARRL's General Q & A are encouraged to test by, or before, June 30, 2023. New editions of ARRL licensing publications will be available in May, for exams taken on, or after, July 1, 2023.

Training and Education

NARS

NARS Member Articles and Tutorials - <http://w5nc.net/index.php/2014-03-31-00-54-20>

ARRL

ARRL Online Course Catalog - <http://www.arrl.org/online-course-catalog>

ARRL Emergency Communications Training -
<http://www.arrl.org/emergency-communications-training>

ARRL Webinars - <http://www.arrl.org/ARRL-Learning-Network#schedule>

Exam Review for Ham Radio - <http://www.arrl.org/examreview>

Find an Amateur Radio License Class -
<http://www.arrl.org/find-an-amateur-radio-license-class>



Free Study Guides

A [study guide](#) for Technician license preparation, Dan Romanchik, KB6NU

A [study guide](#) for Technician license preparation on the Inland Empire VHF Radio Club website, Jack Tiley, AD7FO (Click on "Training Links" and go to the Technician training link)

Online Video/Audio Courses

[Online Technician license exam self-study course](#), Fred Benson, NC4FB - The purpose of the resources developed for this course is to provide candidates in geographical areas that do not provide classes and candidates who cannot attend a class with the means to prepare for the Technician license exam. The materials cover all questions in the question pool with explanations, sub element tests, and sample license exams. Help is available upon request via email.

Benson also offers a ["kid friendly" self-study course](#) and a self-study program especially designed for [emergency services personnel](#).

"The Ham Whisperer" [Video Course](#), Andy Vallenga, KE4GKP – This course is based on the FCC question pool sequence to assist with Technician license preparation.

[A Self-Study Video Course](#), Dave Casler, KE0OG – This course provides a guided self-study [video course](#) based on ARRL's Ham Radio License Manual curriculum.

[Online Technician License Preparation Course](#) – Chris Johnson, N1IR

Study Tools

[HamStudy.org: Cutting edge amateur radio study tools](#) - Free ham radio flash cards, practice tests, and question pools as well as introduction to ham radio and explanations for questions.

[HamTestOnline](#) – Study Tips for the Ham Radio License Exams

[HamExam.org](#) - Free Amateur Radio Practice Tests with Flash Cards

[eHam.net Ham Radio Practice Exams](#)

Paid Resources

[W5YI Group](#) - Your Resource for Ham Radio and Commercial Radio Licensing

[HamRadioPrep](#) - Enroll in Ham Radio Prep, the industry's #1 online test prep and training program, and pass your FCC Amateur Radio License exam on the first try - or your money back.

[HamTestOnline](#) - Study for your Ham Radio License Exam!

Upcoming Skywarn Spotter Training for 2023

Training is free and open to the public. More dates to be added soon. For more details, please see [SKYWARN - Schedule \(weather.gov\)](#).

Date/Time	Location	Point of Contact
Advanced <i>Basic class is a recommended prerequisite but is not required.</i> April 11 th - 7 to 9 pm	Brazoria County Courthouse 111 East Locust Street Angleton, TX 77515	No registration required: SteveRosa@brazoriacountytx.gov
Weather Safety/Spotter Course (Abbreviated) <i>Concientización y Seguridad Durante Tiempo Severo</i> April 13 th - 7 to 8 pm (Spanish)	Click to here register <i>Haga clic aquí para registrarse</i>	Janice.Maldonado@noaa.gov Amaryllis.Cotto@noaa.gov
Advanced October 17 th – 5:30pm – 7:30pm	Walker County Storm Shelter Huntsville, TX	
Advanced <i>Basic class is a recommended prerequisite but is not required.</i> April 11 th 7 to 9 pm	Brazoria County Courthouse 111 East Locust Street Angleton, TX 77515	No registration required: SteveRosa@brazoriacountytx.gov

Exam Practice Answers

Technician: T1C02 – D. Any licensed amateur

General: G5A04 – C. Reactance

Amateur Extra: E5B10 – D. Voltage leads current by 90 degrees

Of Interest to the Club

Houston Local Traffic Net

The Houston Local Traffic Net meets each Monday night at from 6:30 – 7:30pm on the 146.940 repeater with a PL tone of 167.9 Hz. The backup repeater for Monday night is the NARS repeater 146.660/100.0. The Thursday night edition of the Houston Local Traffic Net meets on Thursday evenings at 6:30pm on the 146.660 repeater with a PL tone of 100.0 Hz. This repeater is linked to the 70cm repeater on 444.375 also with a PL tone of 100 Hz. You can access the two linked repeaters via EchoLink node W5NC-R. The Thursday night backup repeater is 147.000 with a PL tone of 103.5 Hz. The purpose of both nets is to pass National Traffic System (NTS) radiogram messages into and out of the Houston area. The Monday edition of the Net also provides traffic handling instruction/training.

Anyone with questions about the Houston Local Traffic Nets, radiograms and or message handling can call or email Sheree Horton WM5N for more information.

GHSN monthly Simplex Propagation Net

Beginning January 2022, the [Greater Houston Simplex Network](#) will return to its regular schedule of the 4th Thursday evening of the month, with 6:15pm for the Zoom meeting and 7:00pm for the beginning of the net. Simplex frequencies are 146.540 MHz.

I would also like to restart the relay nets for the 2nd week of each month, so I need volunteer(s) to help out as Net Control Operator. I am just swamped with developing our cool new propagation application. Please contact me if you can help with this. The script is fully developed, and can be found on [the website](#).

Contact Mark - N5PRD@yahoo.com

Local Events

April 29-30, 2023 – Texas MS 150 - To complete your 2023 Sign-Up you need to visit two separate websites as outlined below:

- [The Com Form](#)
- [2023 TX MS 150 Volunteer Registration \(Galaxy Digital Site\)](#)

Please make sure you have completed the process on both websites. You will not be considered fully registered for the event until you have done so.

Calendar

Club Activities and Events

Monthly Club Meeting – April 21, 2023 - [Klein Fire Station #3](#)

VE Test Session – April 22, 2023 – [Klein Fire Station #3](#) - Check-in will start at 8:30am with testing lasting from 9:00am - 11:30am. All testing activities will be completed by noon.

The full NARS calendar can be viewed at: <https://w5nc.groups.io/g/main/calendar>

Social Events

Lunch Break – North

Take a break with fellow radio operators and enjoy a lunch together!

Locations are announced weekly on the NARS email reflector!

Lunch Break – Medical Center

Near the Medical Center and want to take a break with fellow radio operators and enjoy a lunch together?

Watch the NARS email reflector for details!

Saturday Breakfast

Saturdays at 7 am Broken Yolk Café, 16803 Stuebner Airline Road, Spring, TX 77379

Monday Lunch (Taildraggers Lunch)

Mondays at 11 am; Aviator's Grill at Hooks Airport Terminal

Did you know...

NARS has a social media presence! Thanks to Sam Labarbera, N6HB, we have a Facebook page for those who would like to follow us there. Visit the [W5NC Facebook page](#) and join! It is open to ham radio operators, so there is a short quiz to qualify new members.

We also have a Twitter feed. Follow us on https://twitter.com/nars_w5nc

Hamfests and Conventions

May 19 - 21 | [Hamvention](#), ARRL Great Lakes Division Convention, Xenia, Ohio

June 2 - 4 | [SEA-PAC](#), ARRL Northwestern Division Convention, Seaside, Oregon

June 23 - 25 | [HAM RADIO](#), Friedrichshafen, Germany

September 23 | [Red River Radio Amateurs' Hamfest](#), ARRL Dakota Division Convention, West Fargo, North Dakota

October 20 | [Pacificon](#), ARRL Pacific Division Convention, San Ramon, California

Contests and Radiosport

ARRL Contest Corral

April 2023 - [http://www.arrl.org/files/file/Contest%20Corral/2023/April%202023%20Corral\(1\).pdf](http://www.arrl.org/files/file/Contest%20Corral/2023/April%202023%20Corral(1).pdf)

May 2023 - <http://www.arrl.org/files/file/Contest%20Corral/2023/May%202023%20Corral.pdf>

NARS Club Officers and Information

Board Officers with Voting Privileges

President: Ron Matussek, WA6TQH, 713-825-9606, officers@w5nc.net

Vice President: Paul Kent, KI5FJS, officers@w5nc.net

Treasurer: Tom Hoherd, KK5YU, 281-370-2941, treasurer@w5nc.net

Secretary: Brandon Rogers, K5BLR, 713-294-6630, officers@w5nc.net

Director: Rich Jones, W5VEK, officers@w5nc.net

Director: Sam Labarbera, N6HB, officers@w5nc.net

Board Non-Voting Associate Members

Administrative Secretary: Neal Naumann, N5EN

Social Media Liaison: Sam Labarbera, N6HB

Newsletter Editor: Brandon Rogers, K5BLR

Public Information Liaison: Sheree Horton, WM5N

ARRL/VEC Liaison: Sheree Horton, WM5N

Repeater Team Lead: Marty Fitzgerald, W5MF

Webmaster: Bill Buoy, N5BIA, webmaster@w5nc.net

Trustee: Paul Owen, N5NXS

Club Nets

DMR Weekly Net – Every Tuesday at 7pm. Tune in on Talkgroup 3146211 for information on configuring codeplugs, see the DMR pages on the Club website (<http://w5nc.net>) or contact a club Elmer. Sam Labarbera, N6HB, coordinates this Net.

The Weekly Wednesday Evening Net - Every Wednesday at 8:00 pm. Join us on one of the W5NC repeaters: 146.660 MHz, -600kHz offset, PL 100.0 - wide area centered on downtown Houston and/or 444.375, + 5 MHz offset, PL 100 best in the Spring / Klein area. You can also join from anywhere in the world by connecting to EchoLink node W5NC-R. Kirc Breden, N5XJB, coordinates this Net.

Repeaters

For information on NARS-managed repeaters, please see the club website at <http://w5nc.net/index.php/club-info/repeaters>

Did you know...

that NARS has a messaging service, called Groups.io, that allows you to connect with a giant group of experts, club members, and resources. Get more information on our club website at <http://w5nc.net/index.php/club-info/email-reflector-groups>