



# NARS NEWS

JULY 2023

Northwest Amateur Radio Society  
P.O. Box 11483  
Spring, TX 77391  
[w5nc.club](http://w5nc.club)



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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  
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## President's Message

BY RON MATUSEK, WA6TQH

If you did not participate in Field Day, you really missed a wonderful time! This is one of the absolute best Field Day events NARS has ever held! The Field Day Coordinator Robert Ewers K9HOU and all other lead Captains did an outstanding job of organizing and bringing together a team of individuals that really worked together! The facility was of the highest

quality with plenty of room and provided two towers for our use. Must not forget to mention the facility was air conditioned and the team of cooks made meals to remember. We will have some time at our July meeting to recognize all those who helped make this a successful event.



We also had our first V.E. testing session at this new facility and the results are posted later in this newsletter.

Now we move on to celebrate our Independence Day! It commemorates the passage of the Declaration of Independence by the Continental Congress on July 4, 1776. *Millions of Americans will attend parades, fireworks, barbecues, and other Independence Day events, celebrating the courage and sacrifices of the nation's 18th century patriots who fought for the nation's independence from England and what they considered an unjust government.*

Let us all remember this special celebration as we enjoy the fireworks and family social time. In a time where our country is so polarized let us all come together and remember the freedoms the men and women before us fought and gave their lives so we can enjoy the freedoms we have today!

I hope everyone enjoyed the events of this past month and remember you, the members made all this possible. A special thank you to the Klein Fire Department for the use of the newly opened Administration Building located at **HCESD 16 Admin – 18606 Stuebner Airline 77379**.

See you at the July 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)***

#### **T9A06**

Which of the following types of antenna offers the greatest gain?

- A. Yagi
- B. Isotropic
- C. J pole
- D. 5/8 wave vertical

### ***General (Element 3)***

#### **G9A03**

What is the typical characteristic impedance of "window line" parallel transmission line?

- A. 50 ohms
- B. 100 ohms
- C. 450 ohms
- D. 75 ohms

### ***Amateur Extra (Element 4)***

#### **E2B09**

What hardware, other than a receiver with SSB capability and a suitable computer, is needed to decode SSTV using Digital Radio Mondiale (DRM)?

- A. A special front end limiter
- B. A special IF converter
- C. No other hardware is needed
- D. A special notch filter to remove synchronization pulses

See the answers on [Page 37](#).

# The ARRL Letter

An excerpt from the weekly ARRL Letter

## 2023 ARRL Field Day Was a Success

2023 ARRL Field Day is in the books and from all indications, it was a success!

Social media is buzzing with stories and photos from around the country.

Results are coming in, and so far, 2,548 Field Day entries have been received. You can see a live, up-to-the-minute count of the entries, comments, and photos on the Field Day Entries Received web page.

Participants have been submitting photos and descriptions of their stations and setups to the SOAPBOX column. Below are just a few of the many Soapbox received so far.

### William Roy, K1YOR:

"I used a Yaesu FT-450D, 100, and an

[MFJ] G5RV Junior [antenna] in the near vertical incidence skywave configuration. It was basically horizontal. The average height was about 14 to 18 feet above the



William Roy, K1YOR.

## 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>

ground, broadside was north/south, and the ends were pointing east and west. Because I was inside, the antenna could not be extended in a normal fashion. I used rubber standoffs and non-metal furniture to support the antenna.

### Thomas Hardy, NN7O:

"This was my first year participating in Field Day. [I] operated CW [low power] from eastern California. I am still a new CW operator, and while I am getting better, I appreciate everyone's patience. I was using my KX2 into a 40-meter [end-fed-half-wave] setup as an inverted v. [It] seemed to work well. [I got] more east coast contacts than I expected!"



Thomas Hardy's, NN7O, Field Day setup.

### Thomas G. Azlin, W7SUA:

"I set up at our family cabin on the Mogollon Rim [Trail] near Show Low [in Arizona]. [I] used an [Elecraft] K3, [a] Goal Zero Yeti 1500X battery/inverter, [a] 200 -W solar panel for daytime charging, and an [MFJ] G5RV Junior [antenna] strung up in pine [trees] with pre-existing ropes and pulleys. [I] split my time between JS8 and FT8 on 40, 20, and 15 meters. [It was a] nice Field Day, [and] fun!"



Thomas G. Azlin's, W7SUA, Field Day setup.



Like many ARRL Field Day sites, the Hampden County Radio Association (HCRA) in Massachusetts welcomed guests to their event. They got more than they bargained for, though, when a black bear showed up and started helping itself to their food!



*A black bear eating the Field Day snacks at the HCRA site. [Larry Krainson, W1AST, photo.]*

More stories and updates are on the way. Check out the [ARRL News](#) web page for the latest on 2023 Field Day!

## 2023 AMSAT Field Day

2604 AMSAT Field Day is over, and early data shows how the satellites were utilized.

It has been many years since there were more than one or two Field Day submissions from outside North America. This year, immediately after of Field Day ended, there were two submissions from Japan.



The satellites worked well. The FM Tevel family of satellites and GreenCube seemed to be popular. SO-50, AO-91, and the International Space Station were also busy with their FM single channel. DOSAAF-85 (RS-44) was quite tame, with plenty of bandwidth for many to make contacts, whether they were sitting on a frequency and calling CQ or using the hunt-and-pounce method.

More data is on the way. For updates, visit the [AMSAT](#) website. A special thanks to Bruce Paige, KK5DO, for the information provided in this story.

## ARRL Section Managers Prepare for New Terms

When the nomination period for the summer ARRL Section Manager election cycle concluded on June

9, 2023, there was only one candidate for each of the Sections up for election.

The following incumbent Section Managers were declared re-elected to new 2-year terms starting on October 1, 2023:

- Amanda Alden, K1DDN, Colorado.
- Jo Whitney, KA7LJQ, Eastern Washington.
- Diana Feinberg, AI6DF, Los Angeles.
- Carol Milazzo, KP4MD, Sacramento Valley.
- Dan Ringer, K8WV, West Virginia.
- Stuart Wolfe, KF5NIX, South Texas.
- Monte Simpson, W7FF, Western Washington.

Kevin Kerr, W1KGK, of Plains, Montana, was the only nominee for the ARRL Montana Section, and he will be taking the reins of the Montana Field Organization on October 1. Kerr is presently serving as Section Emergency Coordinator of the Montana Section and as a District Emergency Coordinator within the Section. Paul Stiles, KF7SOJ, decided not to run for a new term. Stiles, of Billings, Montana, has been Section Manager of the Montana Section since 2019.

Dr. Antonis Papatsaras, AA6PP, of Larkspur, California, will become the Section Manager of the San Francisco Section on October 1 because he was the only nominee. He currently is an Assistant Section Manager of the ARRL San Francisco Section and has been President and Director of the San Francisco Radio Club.

Bill Hillendahl, KH6GJV, of Santa Rosa, California, decided not to run for another office term after serving as Section Manager of the San Francisco Section for 20 years.

Section Manager of the Oregon Section David Kidd, KA7OZO, has decided to step down from the role for personal reasons. He was first appointed to the position on July 1, 2018. Effective July 1, 2023,

Jonathan Wanzer, KK6GXG, will fill the role for the remainder of the current term.

Wanzer stated, "Homebrew radios, tools, and antennas are not my only interests in the Amateur Radio Service. I like to share with others; I teach license classes and introduction to Emergency Communications (EC-001). I am an active Volunteer Examiner... I also have the honor of serving fellow hams as the Klamath County Emergency Coordinator and as the Assistant Section Manager for [the Oregon Section]. One of my greatest privileges is in developing contacts and relationships with non-ham groups and providing presentations and information on amateur radio and all it has to offer their members, and the community at large, through the Civil Defense Communications Auxiliary."



*Jonathan Wanzer, KK6GXG, new Oregon Section Manager as of July 1, 2023.*

Wanzer, of Klamath Falls, will serve as Section Manager of the Oregon Section through June 30, 2024.

ARRL would like to thank Kidd for his years of dedicated service as a volunteer, and for his hard work as a Section Manager.

## HAM RADIO in Germany Draws International Crowd

The 46th annual International Amateur Radio Exhibition, HAM RADIO, attracted more than 11,000 visitors to Friedrichshafen, Germany, June 23 - 25, 2023.

ARRL, which has nearly 7,000 international members, sends a small delegation to the convention each year -- greeting members and friends from the global amateur radio community, and networking with other national radio societies. ARRL representatives included President Rick Roderick, K5UR and his wife Holly Roderick; CEO David Minster, NA2AA; Director of Operations Bob Naumann, W5OV, and Director of Marketing and Innovation Bob Inderbitzen, NQ1R.

Messe Friedrichshafen Managing Director Klaus Wellmann and Project Manager Petra Rathgeber were delighted with the success of the event.

"HAM RADIO lived up to its reputation as Europe's largest amateur radio exhibition. In cooperation with the German Amateur Radio Club (DARC), the perfect partner for the event, we showed that amateur radio plays an important role in society," said Wellmann and Rathgeber. "This year's slogan, 'We're all about STEM!' was brought to full fruition, with many activities focusing on work with young people -- something that really brought in the crowds."



*Attendees queue up at the ARRL booth to have their QSL cards checked for DXCC and other ARRL awards.*



*(Left to right) Lili, HA2LY, and Nóri, HA5YN, were among the youth attendees at 2023 HAM RADIO and who visited the ARRL stand. Both will participate in the Youngsters on the Air (YOTA) camp in Hungary, to be held in August.*



A recent press release from HAM RADIO said young attendees were able to tinker and make things under guidance, and they were also able to test their knowledge in the Ham Rally, a technical scavenger hunt featuring 25 stations. Students were encouraged to try sending Morse code, and pass the QSL card quiz. ARRL participated in the Ham Rally, challenging young people to name and identify the US states.

"We were really happy with the way this year's exhibition went," said Christian Entsfellner, DL3MBG, Chairman of DARC.

A total of 392 participants, including 149 commercial exhibitors and international associations, as well as 243 flea market exhibitors, represented the unique diversity of amateur radio around the world.

Plans are already being made for next year's HAM RADIO to be held June 28 - 30, 2024. More information is available at [HAM RADIO](#).

See also ARRL's photo album from the convention on [Facebook](#).

## FCC ULS System Restored

[The FCC Universal Licensing System](#) (ULS) has resumed operations, including the Electronic Batch Filing (EBF) system.

As of June 27, 2023, all systems have been reported to be working. However, visitors to the website will see a message referring them to Public Notice [DA-](#)



*The convention draws attendees from around the world. In this photo, ARRL Life Member and Diamond Club donor John Gagen, W2YR (middle) is flanked by President Rick Roderick, K5UR (left) and CEO David Minster, NA2AA (right). Gagen operates as HSOZDJ when in Thailand.*

[23-529](#) for additional information and guidance on filing deadline extensions.

The systems were first reported unavailable on June 9, 2023. On Friday afternoon, June 23, the EBF system was restored. All VEC organizations use that system for filing exam sessions, individual applications, and club license applications. ARRL VEC staff worked late into Friday night to ensure all backlogged sessions and application files were transmitted to the FCC before the weekend. Approximately 350 backlogged files were successfully submitted to and processed by the FCC before the system's normal shutdown at 8 PM.



ARRL is still monitoring the ULS, and any further updates will be available at [ARRL News](#).

## The Big Bang Theory Antenna Lives On

An antenna that holds an important place in scientific history sits on a small parcel of land on Crawford Hill in Holmdel Township, New Jersey.

The antenna is known as the [Holmdel Horn Antenna](#), and it was built in

1959 by Bell Labs (now Nokia Bell Labs) researchers. It was originally designed to bounce radio signals off of reflective satellite balloons for long-distance communication. It worked, and the Holmdel Horn Antenna was no longer needed.



*[Photo courtesy of Ken Barber, W2DTC]*



Two Bell Labs astronomer employees, Arno A. Penzias and Robert W. Wilson, received permission in 1965 to use the antenna to search for radio transmissions in outer space. They pointed the antenna toward what was considered a quiet area, but what they discovered was anything but quiet. They discovered [Cosmic Microwave Background radiation](#), which provided evidence for the [Big Bang Theory](#).

Now, there is a historical marker at the site, but there has been some dispute as to who owns the antenna and surrounding land. In mid-June 2023, the Holmdel Township Committee voted unanimously to approve resolutions that will begin the process of acquiring two of the three parcels that make up the Crawford Hill property. The township committee is leaving the third parcel to be part of the redevelopment toward preserving Crawford Hill as a public park to celebrate the horn antenna's place in scientific history.

Visit the [Holmdel Horn Antenna](#) to learn more.

## Women of Influence in Engineering 2023 Ham Honoree

Michelle Thompson, W5NYV, Cofounder and CEO of the Open Research Institute (ORI), has been selected as a 2023 honoree for the Women of Influence in Engineering section published by the San Diego Business Journal. The publication celebrates female trailblazers and highlights the honorees careers and accomplishments.

Thompson has been an amateur radio operator for more than 25 years and was drawn to the hobby by her father and grandfather, who were amateur radio operators.



*Michelle Thompson, W5NYV, 2023 Honoree (photo courtesy of W5NYV)*

"We were a family of tinkerers, and my dad and granddad were always fixing and building things, including amateur radios," said Thompson. "Because of their influence, I was drawn to the vocation of helping people navigate difficult rules and regulations that impeded their learning and success."

In 2020, Thompson founded ORI, a nonprofit research and development organization that provides all of its work to the general public under the principles of [Open Source](#) and [Open Access to Research](#). She is responsible for amateur satellite service regulatory reform and is a member of the FCC Technological Advisory Council.

Thompson is also chair of the Institute of Electrical and Electronics Engineers (IEEE) San Diego Section. She founded the IEEE Information Theory Society, as well as the local Open Source Digital Radio Group.

Thompson serves the ARRL Field Organization Southwestern Division as a Technical Specialist for the San Diego Section, and she is an ARRL Life Member.

## Legislation to Remove Private Land Use Restrictions on Amateur Radio Introduced in Congress

Congressmen Bill Johnson (OH-06) and Joe Courtney (CT-02) reintroduced a bill in the US House of Representatives on June 12 -- [H.R.4006](#) ([see full text](#))

[of bill in this PDF](#)) -- to remove private land use restrictions that prohibit, restrict, or impair the ability of Amateur Radio operators from operating and installing reasonable antennas on property that they own or control. Similar legislation, H.R. 9670, was [introduced](#) by Congressman Johnson in 2022.



"I reintroduced the Amateur Radio Emergency Preparedness Act to remove barriers to disaster and emergency communications and training, and to promote education in STEM subjects related to critically needed wireless technology,"

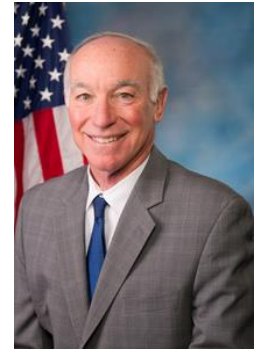
Congressman Johnson said in a release. "Passage of this bill will promote developing and sustaining our nation's wireless future and facilitate and encourage amateur radio operations as a public benefit."

"As their actions during recent natural disasters such as Hurricane Sandy proved, amateur radio operators in Connecticut can be a critical component of disaster response and emergency management. It is in our communities' best interest that we give them the capabilities to operate at the highest level, and with the re-introduction of this bill, we've taken a strong step in that direction," said Congressman Courtney.



*Congressman Bill Johnson (OH-06).*

The exponential growth of communities bound by private land use restrictions that prohibit both the operation of Amateur Radio and the installation of amateur station antennas has significantly restricted the growth of the Amateur Radio Service.



*Congressman Joe Courtney (CT-02).*

[ARRL The National Association for Amateur Radio](#)® continues its multi-year efforts to eliminate private land use restrictions that prevent Amateur Radio operations and has pledged to strongly support Congressman Johnson and Congressman Courtney in their efforts on behalf of Amateur Radio.

Rick Roderick, K5UR, President of ARRL, on behalf its Members and America's Amateur Radio community extended his thanks and appreciation for the leadership of Congressman Johnson and Congressman Courtney in their tireless efforts to support and protect the rights of all Amateur Radio Operators and to further STEM education and the advancement of American expertise in wireless technology.

### **Amateur Radio Helps Air Show Fly High**

More than 40 members of the [Nashville Amateur Radio Club](#), Williamson County ARES®, and [Stones River Amateur Radio Club](#) partnered to provide operations support leading up to and throughout the 2023 Great Tennessee Air Show.

On June 10 - 11, 2023, the show was headlined by the US Navy Blue Angels demonstration team. Tom Delker, K1KY, Air Show Communications Coordinator, said that amateur radio operators from the Middle



Tennessee Emergency Amateur Radio System have been supporting the air show since the mid-1980s.

Operators were able to employ multiple technologies during the event, including simplex radio operations, RF mesh networking, mobile VoIP phones, IP surveillance cameras, APRS tracking, and weather monitoring and measurement.

Smyrna/Rutherford County Airport Authority Director John Black and Deputy Director Salil Rai expressed their sincere appreciation for the team and all those who worked the event. This volunteer amateur support translates to operations money that can go directly towards community projects.

In addition to the US Navy Blue Angels demonstration team, historic aircraft, including the Spirit of Detroit DC-3 and the Blue Angels' "Fat Albert" C-130 Hercules, also highlighted the show.

Event organizers said they expected more than 50,000 people to attend the event. The next Great Tennessee Air Show is scheduled for 2025.

## Cal Poly Amateur Radio Club achieves 2,000th License Milestone

Student-run [Cal Poly Amateur Radio Club \(CPARC\)](#) at California Polytechnic State University in San Luis Obispo County just hit a licensing milestone. On May 23, 2023, Kyle Wiens became the 2,000th person to pass the amateur radio exam given by CPARC since they started in 2009.

Wiens, now KO6ABA, is a Cal Poly alumnus and CEO of iFixit, a company that produces electronics repair guides for consumers. After learning about the approaching landmark, Wiens expressed immediate interest in being that 2,000th licensee.



Wiens and several interested members of the iFixit staff took a course from CPARC officers Mathew Shaham, KM6WIU, and Hunter Herring-Alderete, KN6RJA. Then they took an exam.

The session had 28 applicants and was the largest group of the year held by CPARC's Volunteer Examiners. Alumnus Marcel Stieber, AI6MS, served as session liaison and worked closely with student lead Andrew Fahey, KN6FIJ, to coordinate the exam.



*CPARC VE team with group from iFixit. [Marcel Stieber, AI6MS, photo.]*

CPARC uses an accelerated course licensing technique that became popular through Dr. Dennis Derickson's, ACOP, Freshman Licensing Initiative which started in 2011. Up until 2022, when the FCC began issuing a fee for new licenses, the initiative provided class credit in the introductory course, Electrical Engineering E-111, for obtaining an amateur radio license.

The effort gave new electrical engineering students a preview of topics covered in further classes. It also afforded students a practical outlet for skills like radio contesting and volunteering as communications support for events. At the peak of the initiative, CPARC was licensing more than 100 operators in one 50-minute class period.

"It's a big milestone. Most exam teams don't make it to license number 2,000. I'm really proud to support the students running these exam sessions," Stieber said after the exam session. As the last papers were graded, the majority of student applicants passed in addition to every member of the iFixit crew.



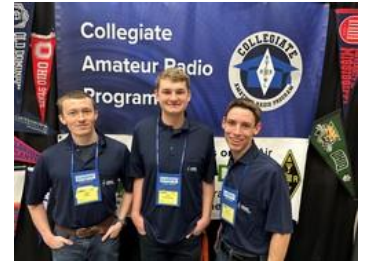
## 2023 SEA-PAC: Successful ARRL Northwestern Division Convention

"Surf a Radio Wave" was the headline for the Pacific Northwest's largest amateur radio convention, [SEA-PAC](#), which held its 41st event, June 2 - 4, 2023, in Seaside, Oregon. The convention hosted the 2023 ARRL Northwestern Division Convention.



ARRL Education and Learning Manager Steve Goodgame, K5ATA, delivered an inspiring keynote address at Saturday's banquet. Goodgame spoke about current and future ARRL initiatives to increase the adoption of amateur radio by more schools as part of a STEM education curriculum. His spouse, Cyndi Goodgame, K5CYN, spoke at the YL Luncheon, on the topic of developing the next generation of young women in amateur radio. She was joined by Katherine Campbell, KE8LQR, of Columbiana, Ohio, and ARDC Executive Director Rosy Schechter, KJ7RYV, of Portland, Oregon. Both offered personal perspectives on being active hams. At age 15, Campbell holds an Amateur Extra Class license, and participates in many hamfests to recruit and encourage other young hams.

A large student presence at SEA-PAC was organized by Scott Rosenfeld, N7JI, Technical Advisor for the ham radio club at the University of Oregon (UO), [Ducks on the Air](#). Students from three schools supported a booth for the ARRL Collegiate Amateur Radio Program including UO, Portland State University (PSU), and Oregon State University. "It was great to see such enthusiastic participation from the students, such great support from ARRL and the SEA-PAC organizers, and so much personal interaction between attendees and our students supporting collegiate amateur radio," said Rosenfeld. PSU students used the opportunity to present their student-led aerospace project, OreSat, Oregon's first satellite. OreSat0 is a CubeSat that launched in March 2022. Additional OreSats are in various stages of development and launch planning.



*Students from Oregon State University Amateur Radio Club representing the ARRL Collegiate Amateur Radio Program at SEA-PAC included (left to right) Charles Chance, KE0IJJ; Preston Crowe, W7PBC, and Club President Declan O'Hara, KG7HTE.*

Students track and receive data from the satellites with amateur radio. "The students enjoyed the experience so much that they've already discussed doing it again next year, and how to make the experience even better," added Rosenfeld, who thanked show attendees for spending time talking with the students.



*ARRL member Kat Ricker, KF7KAT (left), builds an end-fed half-wave antenna during one of the workshops offered at 2023 SEA-PAC. ARRL Alaska Section Manager David Stevens, KL7EB (right) was among the team of instructors who assisted with the kit building.*

See ARRL's photo album from SEA-PAC on [Facebook](#).

SEA-PAC is sponsored by the Oregon Tualatin Valley Amateur Radio Club, and co-sponsored by the Clark County Amateur Radio Club. The next SEA-PAC will be held May 30 - June 2, 2024.

Visit [www.arrrl.org/hamfests](http://www.arrrl.org/hamfests) to find a hamfest near you.

[Read more about the event on ARRL News.](#)

## Australian Government to Resume Amateur Licensure, Deed Delegation Ends

The Australian Communications and Media Authority (ACMA) said they will resume responsibility for amateur radio licensing in the country. As [first reported](#) by the Wireless Institute of Australia, the "new, more effective arrangements" come as ACMA reported that the Australian Maritime College (AMC) has decided not to extend a deeded arrangement that delegated licensing of radio amateurs to the school beyond February 2024. AMC has been responsible for operator



exams, issuing qualifications, and recommending that ACMA issue a call sign to an applicant.

Australia issues three license classes: Foundation, Standard, and Advanced. Currently, tests are administered by volunteer assessors, often associated with radio clubs, who are accredited through the AMC. ACMA proposes to keep that same corps of volunteers, but to have them directly administer testing on behalf of the government. Those interested in being ACMA-accredited assessors may apply to the agency.

ACMA plans to introduce the new accreditation scheme and class licensing arrangements in August 2023.

## ARRL Elected to Serve on SAFECOM

ARRL The National Association for Amateur Radio® has been elected to serve on SAFECOM®. SAFECOM is a group of national thought leaders and officials within the emergency communications and response space that works to set standards at every level. The program is managed by the Cybersecurity and Infrastructure Security Agency (CISA), an agency of the US Department of Homeland Security.



SAFECOM sets the standards of interoperability procedures. As a part of the group, ARRL solidifies the Amateur Radio Service as a robust resource before and during times of crisis.

A letter from the SAFECOM Chair, Chief Gerald R. Reardon, stated, "On behalf of the SAFECOM Executive Board, it is with great pleasure that I inform you of our offer to join SAFECOM as a member association. SAFECOM aims to improve multi-jurisdictional and intergovernmental communications interoperability through collaboration with emergency responders and



policymakers across federal, state, local, tribal, territorial, and international partners. SAFECOM recognizes the organization's dedication to emergency communications and interoperability, and therefore is pleased to extend a membership offer."

ARRL Director of Emergency Management Josh Johnston, KE5MHV, "Gaining a seat at the table is a major step in strengthening the role and capability of amateur radio with emergency communication agencies. This will give us the sounding board and resources we need to set standards and create training for our [Amateur Radio Emergency Service® \(ARES®\)](#) volunteers that will better suit Authorities Having Jurisdiction and partner organizations." The opportunity for ARRL to provide a more comprehensive emergency communications program is part of the goal the Board and ARRL leadership has begun to emphasize over the past few years, and this is one more example of the commitment to do so. ARRL will provide premier resources for the served agencies to support them in all phases of emergency management.



Johnston will serve as the Representative for ARRL on SAFECOM and will be meeting with leadership over the coming days to begin the process of better understanding the roles and responsibilities that come with being a member association. "I look forward to working with the SAFECOM leadership as we move forward and with the ARRL leadership to better serve the ham community, our served agencies, and our partners," Johnston said.

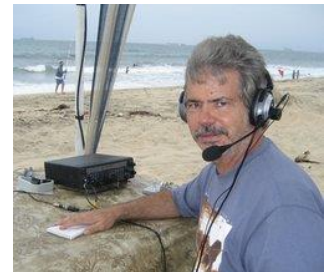
For more information about ARES and other ARRL emergency programs and training, check out our web page at <http://arrl.org/public-service>.

For more information about SAFECOM, visit <https://www.cisa.gov/safecom>.

## Chip Margelli, K7JA (SK) "He Touched So Many Lives"

The airwaves are markedly dimmer this week, social media is filled with heartfelt tributes, and industry leaders are mourning. Longtime fixture of amateur radio Charles "Chip" Margelli, K7JA, passed away after a brief illness. Margelli was an ARRL Life Member.

"The light and love of my life is gone," Margelli's widow Janet, KL7MF, posted on Facebook. "He enjoyed 60 wonderful years as a ham and 45 happy years with me. Between DXing, contesting, ragchewing, moonbounce, satellite, writing, designing, building antennas, and Field Day, there was never a dull moment," she wrote.



*Chip Margelli, K7JA (SK).  
[Gordon West, WB6NOA,  
photo.]*

Margelli was well known in the amateur radio industry. His friendly approach and love of customer service marked his professional career. He served for 29 years at Yaesu Musen until becoming the Director of Sales and Marketing for Heil Sound Communications Inc. in 2006. In 2010, he joined CQ Communications Inc. as the Director of Advertising Sales. Later in his career, he worked with InnovAntennas before retiring from Ham Radio Outlet as an I.T. Specialist in 2022, according to his biography.

"Chip was a great tester," said ARRL Director of Operations Bob Naumann, W5OV. Margelli held first place in many national radiosport contests. "He never had anything bad to say about anyone. He was a fixture at all [of] the big events and was just a great guy to be around," said Naumann.



His love of people took him around the world on DXpeditions and missions of goodwill related to amateur radio.

In 1984, he was instrumental in helping the Chinese Radio Sports Association re-establish amateur radio in China. He served a similar role in Albania and operated from Cuba. In 1990, Margelli and his teammate Mike Wetzel, W9RE, won a silver medal at the first-ever World Radiosport Team Championship, held in conjunction with the Goodwill Games in Seattle.



*Chip Margelli, K7JA (SK).  
[Gordon West, WB6NOA,  
photo.]*

His operating prowess spanned modes, cultures, and languages. "Chip was a real DXer who could be eating an ice cream sandwich while sending CW at 50 WPM, all while watching his smartphone for DX spots and carrying on a conversation with a visiting ham," said instructor Gordon West, WB6NOA.

"When working phone, he would speak Japanese when the band was open to the west and speak Russian [to] an early morning 20-meter contact, and [then] Spanish when working stations to the south - plus, more languages [than] I could ever figure out, with a perfect accent," West added.



*West and Margelli at an  
operating event. [Gordon  
West, WB6NOA, photo.]*

Margelli was genuinely curious about many subjects. "If someone brought up a topic about who knows what, he would just go with it.," said Janet Margelli.

"There didn't seem to be anything that did not interest him," she said. Margelli is remembered as someone who "just loved people [and] loved entertaining them," she said.



*Chip Margelli, K7JA (SK),  
and Janet Margelli, KL7MF,  
were married 45 years.  
[Gordon West, WB6NOA,  
photo.]*

In May 2005, Margelli took amateur radio to global late-night TV.

On [an episode of The Tonight Show](#), host Jay Leno pit Morse code against SMS text messaging to see which was a faster way to communicate. Margelli went up against the US champion cell phone text messenger. Long time friend Katie Allen, WY7YL, said that Margelli didn't feel pressure to perform for the global audience nearly as much as he did for fellow hams. "He always told me that it was kind of thrown together at the last minute, the biggest pressure was that Dayton Hamvention was right after and if he blew it, he didn't want to show his face at the event," said Allen. He didn't blow it - Margelli and his partner Ken Miller, K6CTW, beat the speed of the text messengers.

Margelli is a 2018 inductee of the First Class CW Operators' Club (FOC), a 2021 recipient of the E.T. Krenkel Medal, and was inducted into the CQ Amateur Radio Hall of Fame in 2006. He was a life member of AMSAT and the Quarter Century Wireless Association.

More than his impressive career as a radio amateur, those closest to Margelli are mourning the loss of a man they describe as caring and compassionate - always willing to help creatures big and small. "Chip and Janet have a beautiful yard. I remember one time he ran out in a pouring rainstorm to cover a bush that had monarch butterfly larvae in it," said Allen. "Who else would get soaking wet just to make sure butterflies make it through a rainstorm?" she said. Allen once was in need of a kidney transplant, and Margelli offered up his own. "He called my husband - before they even met and said, 'If Katie needs a kidney, I have an extra,'" recounted Allen.



*Fellow radio amateurs respected Margelli's expertise with antennas. He would frequently homebrew them. [Gordon West, WB6NOA, photo.]*

There has been an outpour of messages and remembrances of Margelli circulating on social media. While reaching out for this article, ARRL received many thoughtful comments about Margelli that cannot fit within one story. We have assembled some of the photos and writings on the [ARRL Facebook page](#) and [YouTube channel](#), where users are encouraged to share their memories to honor the impact Margelli had on them.

As Margelli was privately battling cancer, he was spending time building cables and other equipment for ham clubs to use in the upcoming [2023 ARRL Field Day](#). His final acts of service will be put to good use in the operating event. Janet Margelli said a memorial service is not planned. "If Chip were here, he'd say the best way to honor him is 'just go kick butt on Field Day.'"

## 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 Field Day | PHOTOS"](#) / The Allentown Morning Call (Pennsylvania), June 25, 2023 -- Amateur radio Field Day at Bicentennial Park in East Allen Township.

["Amateur radio operators gather in Falcon for weekend-long Field Day exercise"](#) / KRDO (Colorado), June 25, 2023 -- Pikes Peak Radio Amateur Association (PPRAA), is an ARRL Affiliated Club.

["Tampa Amateur Radio Club prepares for hurricane season during Field Day exercise"](#) / WFLA (Florida), June 25, 2023 -- Tampa Amateur Radio Club is an ARRL Affiliated Club.

["Local Amateur Radio operators reach out to the world during Field Day in Calhoun this weekend"](#) / KARD (Louisiana), June 25, 2023 -- Northeast Louisiana Amateur Radio Club.

["HAM Radio demonstration held at Aiken Municipal Building"](#) / Aiken Standard (South Carolina), June 25, 2023 -- The North Augusta Belvedere Radio Club and Aiken Amateur Radio Emergency Services (ARES®).

["Birmingham radio amateurs demonstrate how they help in emergency communications"](#) / WBRC (Alabama), June 26, 2023 -- Birmingham Amateur Radio Club.

["Alachua County Amateur Radio Emergency Services Field Day"](#) / Alachua Chronicle (Florida), June 15, 2023 -- The Alachua County Amateur Radio Emergency Service®, (ARES®).

["See ham radio in action at Amateur Radio Field Day event in Eastvale"](#) / Daily Bulletin (California), June 16, 2023 -- The GOTAhams Amateur Radio Club is an ARRL Affiliated Club.

["Ham radio operators to participate in nationwide event"](#) / The Star (Indiana), June 17, 2023 -  
- The Northeastern Indiana Amateur Radio Association is an ARRL Affiliated Club.

["Amateur Radio clubs prepare for field day event"](#) / Fredericksburg Free Lance Star (Virginia), June 18, 2023 -- The King George Amateur Radio Operators is an ARRL Affiliated Club.

["STEM Outreach: Embry-Riddle to Connect Students, Astronauts"](#) / ERAU News, Embry - Riddle Aeronautical University (Florida), June 8, 2023 -- The Daytona Beach CERT Amateur Radio Association is an ARRL Affiliated Club.

["Rochester Amateur Radio Club to participate in national field day"](#) / West Central Tribune (Minnesota), June 7, 2023 -- The Rochester Amateur Radio Club is a ARRL Affiliated Club.

["Local amateur radio club invites public to try radios at field day event"](#) / The Review (Ohio) June 9, 2023

- The Lisbon Area Amateur Radio Association is an ARRL Affiliated Club.

["Preps underway for ham radio field day"](#) / The Highlander (Texas) June 9, 2023 -- The Highland Lakes Amateur Radio Club is an ARRL Affiliated Club.

["Steubenville-Weirton Amateur Radio Club Donates"](#) / The Weirton Daily Times (Ohio), June 2, 2023 -- The Steubenville-Weirton Amateur Radio Club.

["Hamvention 2023 breaks attendance record"](#) / WHIO-TV (Ohio), June 5, 2023 --The Dayton Amateur Radio Association is an ARRL Affiliated Club.

["Amateur Radio Field Day"](#) / paNOW (Canada), June 5, 2023 -- The Melfort Repeater Group.

["McKinney Amateur Radio Club to host annual Field Day event"](#) The McKinney Courier- Gazette (Texas), June 5, 2023 -- The McKinney Amateur Radio Club is an ARRL Affiliated Club.

["RRV ham radio club notes 50th anniversary"](#) / The Paris News (Texas), May 18, 2023 - The Red River Valley Amateur Radio Club is an ARRL Affiliated Club.

["Ham radio operators continue to support county"](#) / El Defensor Chieftain (New Mexico), May 18, 2023 - The Socorro Amateur Radio Association is an ARRL Affiliated Club.

["No cellphone? No problem! The vintage radio enthusiasts prepping for disaster"](#) / The Guardian (New York), May 27, 2023 -- The Desert Radio Amateur Transmitting Society.

*Arrl.org. 2023. ARRL Letter. [online] Available at: <http://www.arrl.org/arrlletter?issue=current> [Accessed 5 May 2023]*



# NARS Monthly Club Meeting

## NARS Field Day 2023

We are thrilled to report that the recent Field Day event hosted by the Northwest Amateur Radio Society (NARS) was an overwhelming success! With great enthusiasm and outstanding teamwork, the organizers and participants made it one of the absolute best Field Day events NARS has ever held.

Field Day Coordinator Robert Ewers, K9HOU, along with the lead Captains, deserves immense appreciation for their exceptional organizational skills. Their meticulous planning and coordination ensured a seamless execution of the event. They truly brought together a team of passionate individuals who worked cohesively for a marvelous Field Day event.

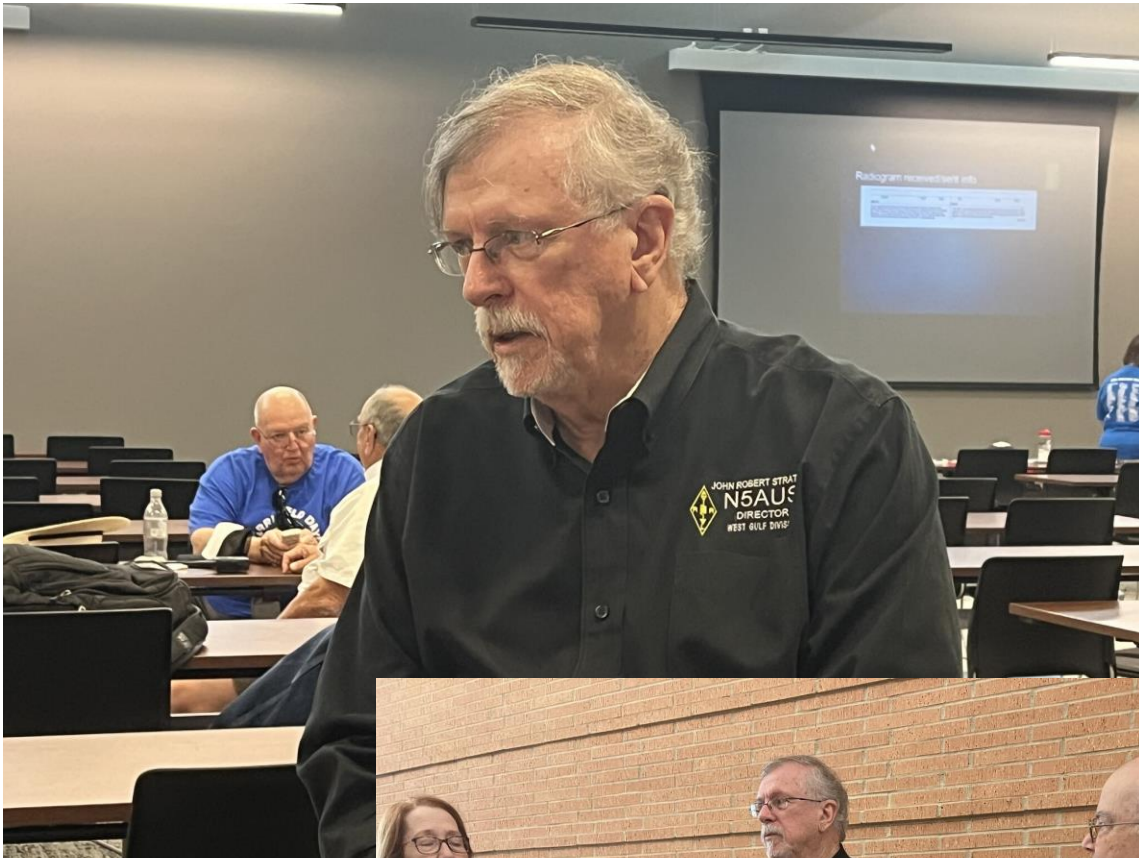
The facility provided for the event was nothing short of exceptional. The high-quality venue boasted ample space for all activities and featured two impressive towers that added to the overall experience.

In light of the extraordinary efforts put forth by all involved, this month's newsletter includes pictures and comments from many of the participants and organizers. We hope you enjoy the memories!



## Visitors

John Robert Stratton, N5AUS, the Director of the West Gulf Division of the ARRL, also stopped by to visit our Field Day activities! It was a pleasure to visit with John and you can learn more about John and the West Gulf division here: <https://www.westgulfdivision.org/officials/director/>





## Antennas

Our Field Day organizers ensured that we had coverage on all the bands. These pictures show the antennas we used and how they were set up, during Field Day.









## Food

The refreshments were fantastic and gave everyone a chance to take a break, socialize, and enjoy some time together.







## GOTA Station

Our GOTA station was a success with several individuals learning the ropes of amateur radio and making some contacts.



Addison Seveska (9) learning at our GOTA station during the NARS 2023 Field Day activities. For a video of the contact, [click here](#).

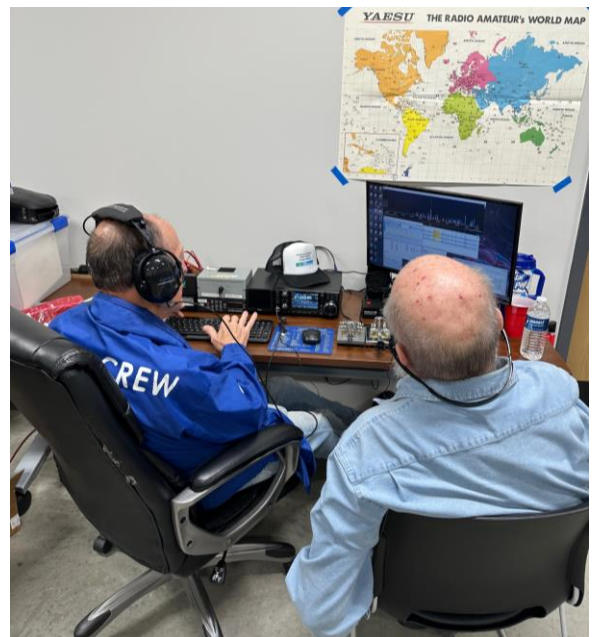






Alexis Seveska (11) being taught by some of the best hams in Houston. [Click here](#) for a video of one of Alexis' contacts.

### CW Station



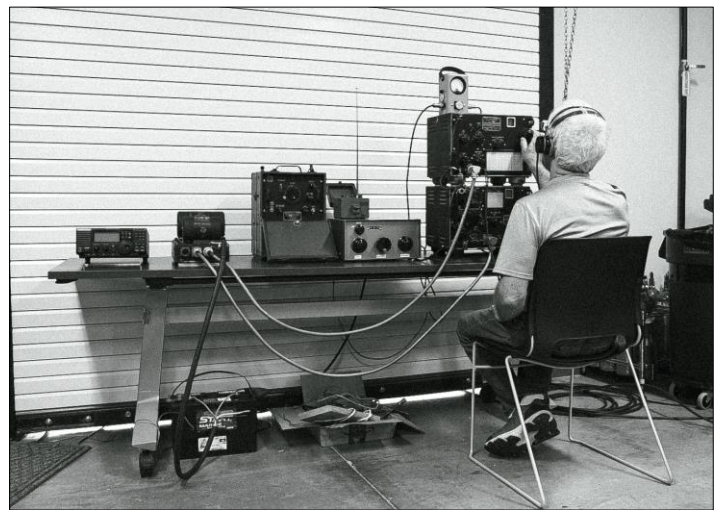
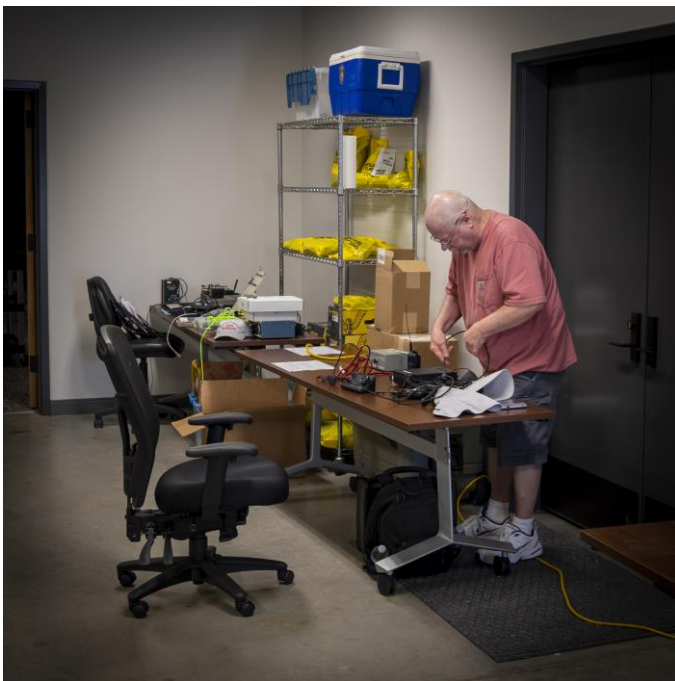


## Stations and Operations

















### Next Club Meeting

Our next club meeting will be July 21<sup>st</sup> at HCESD 16 Admin – 18606 Stuebner Airline Rd, Spring, TX 77379. We will have some time at our July meeting to recognize all those who helped make Field Day 2023 a successful event. 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: HCESD 16 Admin, [18606 Stuebner Airline Rd, Spring, TX 77379](#)  
Zoom Conference Call, Meeting ID: 2815436502, Passcode: 123456

# Amateur Radio Activities

The “Amateur Radio Activities” feature of NARS News highlights various activities related to ham radio. Each issue provides a quick overview for those who may be interested in the learning new aspects of the amateur radio hobby.

## The Loop Antenna

One type of antenna, is popular for its compact size, efficient performance, and directional capabilities—the loop antenna. The loop antenna, often referred to as a magnetic loop antenna, is a versatile and innovative design. Unlike traditional wire antennas, which rely on the concept of electrical conductivity, loop antennas utilize the principle of magnetic induction for both transmission and reception.

Loop antennas consist of a loop of conductor, usually copper or aluminum, which can be either circular, square, or even triangular in shape. The loop is carefully sized to resonate at specific frequencies, ensuring optimal performance within a desired frequency range. The conductor is typically connected to a feedline, usually coaxial cable, which carries the radio signals to and from the antenna.

The key principle behind loop antennas is the generation of a magnetic field perpendicular to the plane of the loop. When an alternating current passes through the loop, it generates this magnetic field, which in turn interacts with the electromagnetic waves in the surrounding space. This interaction enables the loop antenna to receive and transmit radio signals.

Loop antennas offer several advantages that make them an attractive choice for amateur radio operators:

- **Compact Size:** Due to their design, loop antennas can be significantly smaller than traditional wire antennas, making them ideal for installations in limited spaces, such as apartments or urban environments with antenna restrictions.
- **High Efficiency:** Loop antennas are known for their high efficiency in both transmission and reception. They can focus the electromagnetic energy in a specific direction, enhancing the signal strength and improving overall communication quality.
- **Low Noise Reception:** Loop antennas excel at reducing unwanted noise and interference from various sources, enabling clearer reception of weak or distant signals.
- **Directional Properties:** One of the remarkable features of loop antennas is their inherent directionality. By carefully adjusting the loop's dimensions and orientation, operators can steer the antenna's sensitivity towards desired signal sources while minimizing signals from unwanted directions.

Loop antennas find applications across a wide range of amateur radio activities, including shortwave listening, amateur radio contests, DXing (contacting distant stations), and portable operations. They are also favored by radio enthusiasts interested in experimenting with radio frequency (RF) design and propagation.

If you would like to make your own loop antenna, check out the article “Loop Antenna for 10 and 6 meters) in the current ARRL “On the Air” magazine ([click here](#)), where author John Portune, W6NBC, describes how to make a single loop antenna using PVC and conductive tape.

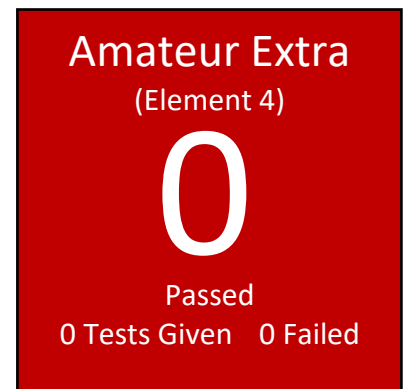
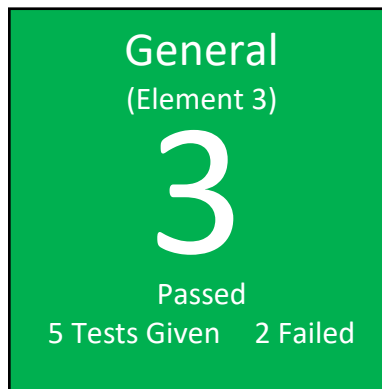
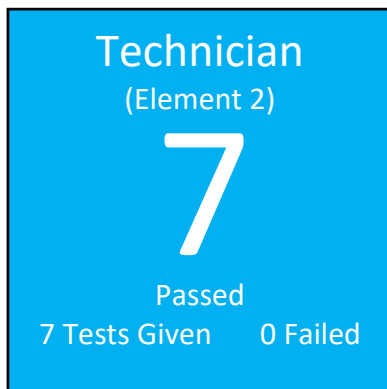


# VE Sessions and Results

PROVIDED BY SHEREE HORTON, WM5N

## Attendees

On Saturday June 24, 2023, a VE Test Session was held at Klein Fire Station #3 in Spring, Texas. During the testing session, 10 candidates took 12 tests.



## Congratulations!

Congratulations to the following for passing their new license exams<sup>1</sup>:

- Samuel V Ball – Technician
- Raymond Donaldson – Technician
- Robert J McCain – Technician
- Sherry Stevens – Technician
- Teresa E McCain – Technician

Congratulations to the following with expired licenses passing the Technician exams:

- Ross Hardie – new General
- Abel Tan – new General

Congratulations to the following for passing their upgrade exams:

- David L Meine KI5MJD – Upgrade to General
- John Ryan KI5ZRR – Upgrade to General
- Benjamin J Springs – Upgrade to General

<sup>1</sup> 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 July 22, 2023. Please visit [www.w5nc.club](http://www.w5nc.club) for the announcement.

## Thanks and Gratitude

Thanks to the Exam VE's in attendance:

- Edward Messman – Assistant Session Manager
- Brett Hebert KG5IQU
- Mark Tyler K5GQ
- Paul Owen N5NXS
- Brandy Lang WE9L
- August J Canik KI5YPD

### 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](mailto:wm5n@arri.net) or [vec@w5nc.net](mailto: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](#). 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!

## 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!

## Renewing Club Members

### New Club Members

Welcome to the following new members of NARS!

- Elba Hardie, KG5HIE
- Mary Needham, KJ5BAR

### Renewing Club Members

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

- Robert (Bob) Hardie, W5UQ

## 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 Meeting Presentations - <http://w5nc.club/nars/index.php/club-info/technical-presentations>

## 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
<b>Advanced</b> October 17 <sup>th</sup> – 5:30pm – 7:30pm	Walker County Storm Shelter Huntsville, TX	

### Exam Practice Answers

**Technician:** T9A06 – A. Yagi

**General:** G9A03 - C. 450 Ohms

**Amateur Extra:** E2B09 - C. No other hardware is needed

## Of Interest to the Club

### Houston Local Traffic Net

The Houston Local Traffic Net (HLTN) was formed July 14, 2020 in preparation for ARRL Field Day 2020. Originally called the Fort Bend County Traffic Net, the HLTN has been in continuous operation since then.

The nets ran on Monday nights for one hour with training sessions during the net. Because of the volume and interest in the Traffic Net, on April 15, 2021 an additional session was added on Thursday nights for 30 minutes and in 2020 the time was increased for up to an hour to also accommodate training.

The Houston Local Traffic Net currently meets from 6:30pm – 7:30pm twice a week handling National Traffic System (NTS) traffic (Radiograms) into and around the Houston Metro area and also includes, time permitted, traffic handling/training.

Monday's net: 146.940 (-) PL 167.9

Thursday's Net: 147.000 (+) PL 103.5

Backup repeater for both:

- 146.660 (-) PL 100.0,
- 444.375 (+) PL 100.0
- Echolink Node W5NC-R (all linked)

A complete schedule of Area Traffic Nets is located on the HLTN.org 'Nets' web tab with the times and frequencies. Visitors are welcome and encouraged to check-in to listen and learn this important Amateur Radio skill.

Direct any questions, via phone or email, about the Houston Local Traffic Net, Radiograms, and Traffic handling to: Sheree Horton WM5N, ARRL South Texas Section Traffic Manager

### GHSN monthly Simplex Propagation Net

Beginning January 2022, the [Greater Houston Simplex Network](#) will return to its regular schedule of the 4<sup>th</sup> 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](mailto:N5PRD@yahoo.com)



# Calendar

## Club Activities and Events

Monthly Club Meeting – July 21, 2023 - HCESD 16 Admin – 18606 Stuebner Airline Rd, Spring, TX 77379

VE Test Session – July 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](https://twitter.com/nars_w5nc)

## Hamfests and Conventions

August 25 - 27 | [Northeast HamXposition](#), ARRL New England Division Convention, Marlborough, Massachusetts

September 9 - 10, 2023 | [QSO Today Virtual Ham Expo](#) (online)

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

November 18- 19 | [Fort Wayne Hamfest & Computer Expo](#), ARRL Central Division Convention, Fort Wayne, Indiana

## Contests and Radiosport

*ARRL Contest Corral*

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

For details on ARRL contests, please see <http://www.arrl.org/contest-calendar>.

# NARS Club Officers and Information

## Board Officers with Voting Privileges

President: Ron Matussek, WA6TQH, 713-825-9606, [officers@w5nc.net](mailto:officers@w5nc.net)

Vice President: Paul Kent, KI5FJS, [officers@w5nc.net](mailto:officers@w5nc.net)

Treasurer: Tom Hoherd, KK5YU, 281-370-2941, [treasurer@w5nc.net](mailto:treasurer@w5nc.net)

Secretary: Brandon Rogers, K5BLR, 713-294-6630, [officers@w5nc.net](mailto:officers@w5nc.net)

Director: Rich Jones, W5VEK, [officers@w5nc.net](mailto:officers@w5nc.net)

Director: Sam Labarbera, N6HB, [officers@w5nc.net](mailto: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](mailto: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.clubs>) 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.club/nars/index.php/repeaters/nars-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.club/nars/index.php/social-media/email-reflector-groups>