

North Fulton Amateur Radio League NFARL eNEWS

October 2023

Over 42 Years Promoting
Service | Friendship | Education | Fun

www.nfarl.org



Antenna Modeling Programs and Techniques / Lee Johnson, N4WYE

Our October presenter is Lee Johnson N4WYE, Lee, a NFARL member for the last 5 years, was licensed in 1957 in Hawaii.

His retirement passion is learning new things.

Lee's last club presentation was on the nanoVNA antenna analyzer that many of you now have.

He says that he has about maxed out on his shack antenna optimization given the typical HOA restrictions.

At our October meeting, Lee will introduce antenna modeling programs and techniques the he has used over the last two years to design, analyze and optimize his small antenna farm on a one half acre lot. Lee started with a 40M dipole in his attic, then ventured outside with an 80M Off-Center Fed (OCF) Dipole. Next came the End Fed Half Wave units, both vertical and horizontal versions. Most recently, he has both 80 and 40M horizontal Loops. The modeling program, that he will discuss, allowed him to get the most performance out of his lot and HOA situation.

Join us on October 17, 2023 to hear Lee tell us about his antenna journey. We'll be gathering at our regular meeting location; Preston Ridge Community Center, 3655 Preston Ridge Road Suite 100, Alpharetta, GA 30005. The facility's doors will open at 7:00PM. Our meeting will begin at 7:30PM and should conclude by 9:00PM.



The meeting will be broadcast on Zoom using this invitation link:

<https://us06web.zoom.us/j/86255827457?pwd=a1FHR3F1bDBqMUVuY3plMDdFa2VMQT09>

Meeting ID: 862 5582 7457

Passcode: 584698

If needed, find your local number at this link: <https://us06web.zoom.us/u/kdQc8IE9oj>

Please Note: Before we begin Lee's presentation, we'll be accepting nominations and holding elections for the 2024 Club Officers. Although the meeting will be broadcast on Zoom, you must be present at the meeting to make nominations and vote.

2023 Is a Busy Time, But Wait for 2024!

Seems as though every year our club does a lot of different things. It has been no exception during 2023, so far.... TechFest, ARISS contact, Dalton, USI 1D Getaway, HamCamp, Field Day, Fireworks coverage, Huntsville, another ARISS contact, SCR, NFARL POTA Sprint, another ARISS contact coming, Stone Mountain coming, HamJam 2023 coming. Your calendar can fill up with lots of radio activities!

What will 2024 bring? Certainly all of the familiar events can be expected. Probably some new opportunities as well. We'll be looking into another HamCamp, there are two ARRIS contact events scheduled, perhaps we can conduct a workshop series or two...

The one thing we really need to make our 2024 plans turn into success is more volunteer participation. Help is always appreciated and by participating at whatever level you can, also makes things happen with a much greater probability of success. We are asking for you to think seriously about what and how you might participate further in the club activities. Maybe you want to see us attempt more youth oriented events. Maybe you want to see some training and or workshop type events. Maybe you want to try more repeater oriented activities. What needs to happen for ideas such as these to turn into fun and enjoyable experiences? Your participation is a big ingredient.

One thing that I've observed during my brief tenure as club President; NFARL has a membership pool that is deep in talent and diverse in capabilities. I keep wondering what would result if we could find a way to help more of our members participate in just one more, or one new activity, what would we as a club be able to accomplish? I'm sure others have thought about the same. How about volunteering a day worth of time to complete a "special event" to help put together the next HamCamp? How about reinstating "Mid-Month Madness"?

Participation can be as much or as little as you can provide. Even simple feedback on what we are doing, what works and what doesn't from your point of view, can be helpful. We can't promise we'll be able to do everything members request or give us feedback on, but we can certainly listen to feedback.

Thanks for your support to date during 2023! I'm looking forward to providing you with what I can do to make the remainder of the year turn out to be satisfying to the club membership as I am able.

73, Mike KN4OAK

Stray- / Ham, call

Back in our September 2023 edition of eNEWS, Ted Macklin, K4MPM told us about some repairs to a power supply. Well, Ted sent me a note later, stating he left some info out that he believes we should be aware of. So here it is:

"I failed to include the importance of using the exact size line fuse as called for in the primary winding (mains supply circuit of the Astron's transformer). Initially I only had one that was 1/2 amp below spec (8amp). It failed almost immediately. Conversely any fuse over spec is likely to melt transformer windings as there's not much protection offered by the circuitry otherwise. Unless you have one like KO4VW's that had a fuse buried inside the transformer that was only accessible by peeling the cover back off the transformer windings... It was not shown on the schematic!"

Regards,

Ted - K4MPM

HamJam 2023 Speakers Announced/ Wes Lamboley, W3WL

HamJam is an event where we gather to hear about various current event topics in Amateur Radio, participate in a raffle of amateur radio related items, and send the raffle proceeds to Youth, Education, and Scholarship related funds. HamJam 2023

Our three speakers and their discussion topics for HamJam 2023 are as follows:

1. Gregg Marco - W6IZT. Gregg is known for his efforts on the RIB (Rig In a Box) technology, but now there a much smaller version based on new ideas that will revolutionize DXing and contesting which he will speak about.
2. Tom Jacobs - N4NFM. Tom is a well know and avid Summits On The Air (SOTA) enthusiast in this popular and growing ham radio sport. Tom will enlighten us all on how to get started in SOTA and involve yourself in a physical fitness program as well!
3. David Benoist - AG4ZR. David is our current ARRL Section Manager and has been for 6 years. He will talk about what all the duties of being a Section Manager are for this vital part of the ARRL Field Organization.

Do plan to be at HamJam on November 11, 2023 to meet and hear these top-notch speakers!

HamJam 2023 takes place on November 11, 2023 from 8:15AM to 1:00PM at Preston Ridge Community Center, 3655 Preston Ridge Road Suite 100, Alpharetta, GA 30005. HamJam 2023 is the 14th event in the HamJam series. Find out more about HamJam 2023 using this link:

http://hamjam.info/hmjm_wp/



Talk in: 147.06MHz + (600k) with 100 Hz tone

On-site questions: 146.52MHz

NFARL POTA Sprint / Richard Dervan, N1RBD

The Georgia Fall POTA Sprint will be taking place on October 28 from 1000-1400ET (1400-1800 UTC). NFARL will be fielding teams at as many different POTA parks as possible and would love to have you join us. You can operate alone, as a team, and as little or as much as you want during the four hour event period. We will be operating under the K4JJ callsign.



For more information and to sign up, please check our website at <https://nfarl.org/nfarl-pota-sprint/>

NFARL 2023 Club Elections / John Norris, N4IHV

North Fulton Amateur Radio League (NFARL) is an Amateur Radio Club serving Roswell, Alpharetta, Johns Creek, Sandy Springs, Milton and all of North Atlanta. The purposes of the club are to further the Amateur Radio hobby, be a social club, and provide some form of emergency services to our local communities. The club was formed under Section 501(c)(3) of the Internal Revenue Code. Club articles of incorporation and bylaws are available at our [Corporate Information](#) webpage. President, Vice President, Secretary, Treasurer, Activities Chairman, and Membership Chairman are officers identified as to be elected in accordance with the process stated in section [3.30 Elections \(page 7\)](#) of the by-laws. Club members eligible to vote are noted in the club by-laws.

| | |
|---|--|
| President- Mike Riley, KN4OAK | Vice-President- Steve Randall KO4VW |
| Secretary- Martha Muir, W4MSA | Treasurer- John Tramontanis, N4TOL |
| Activities Chairman- Lee Johnson, N4WYE | Membership Chairman- Wes Lamboley, W3W |

Eligible members wishing to vote in the election must be present in the October club meeting. The by-laws also describe minimum requirements for the elected positions. Nominees from the floor can be accepted after the Nominating Committee Chair reads the recommendations to the membership at the meeting. The nominating committee has determined the candidate slate to be as follows:

We look forward to your participation in the election. If you have any questions about the process, you may contact me or any of the present officers.

73,

John Norris, N4IHV

NFARL Committee Members Wanted/ Martha Muir, W4MSA

Become an Education Committee Member

Are you a ham? Do you enjoy making contacts? Do you enjoy sharing your interest in ham radio with others? Consider getting involved with the NFARL Education Committee.

The NFARL Education Committee is different than our YESA team, as the YESA focus is on Youth oriented educational and scholarship activities. While education is a primary element of each team's objectives, The Education Committee has the primary responsibility to ensure training programs and materials are relevant and up to date for supporting the club's efforts to conduct periodic classes in radio science for persons seeking an amateur radio license or for those seeking to upgrade their current license; and to promote the elevation of standards of practice and ethics in the conduct of amateur radio communications. Members of this committee are appointed by the club President. This committee works closely with the YESA Chairman and YESA committee to assist them in their YESA objectives.

Right now, we are looking for folks to help with the ARISS contact at A.L. Burress Elementary School in Marietta. At the last minute, we were able to pull a small team to support the A.L. Burress Elementary School participation in the 2023 ARRL School Roundup during the week of October 16, 2023. The School Club Roundup is a week-long activity sponsored by the ARRL in which students of all ages, from pre-K to college, who have access to radio equipment, try to make contact with all other students who have access to radio equipment. Often, it offers opportunities for students to make their first on-air contacts. (BTW, anyone who hears the students on the air is welcome to respond to student calls of CQ.)

How can you help? Students at A.L. Burress, who also have an ARISS radio contact coming up at the end of October, do not have ham radio licenses. Our licensed and experienced club member will serve as control operators and to show students how to make contacts – what to say, how to operate a mic, etc., during the School Club Roundup. The School Club Roundup runs from Monday, October 16, to Friday, October 20. A.L. Burress is on a half day schedule that week due to parent conferences in the afternoon and our volunteers have logistical challenges as well, so the school will participate in the Roundup only from 9 AM to 11:30 AM Thursday October 19 and Friday October 20, 2023.

Additionally, we need 3-4 folks who are capable of setting up and maintaining the backup radio antenna for the ARISS contact which will occur on someday (to be announced by ARISS) during the week of 10/23/2023. Several of these type of events are envisioned to take place in 2024. This, along with the curriculum oversight, YESA assistance, anticipated Computer Museum of America and other club level training & hands on events are areas the NFARL Education Committee will provide support. We are looking for the volunteers to fill the Education Committee roles.

Don't keep your love and knowledge of ham radio to yourself. Share it with these eager students. Christa McAuliffe said "I touch the future. I teach." Be a part of the future. Join the NFARL Education Committee.

If you want to get involved, contact NFARL President Mike Riley KN4OAK at kn4oak@nfarl.org.

How to build an Inexpensive External Speaker / Bisciotti, KO4USA

The speaker in my Icom 7610 is not the best for listening to QSOs when noise levels are up and signals are weak. As a solution, I tried purchasing an external speaker from Icom. In fact, I tried all three of the OEM's (Original Equipment Manufacture's) external speakers (SP-33, SP-38 and SP-41). The price of speakers started at around \$135 for the SP-33, \$185 for the SP-38 and \$270 for the SP-41). I tried each of them and was not impressed. For the price paid, the audio quality was n't up to par.

Lee Johnson, N4WYE, told me about a "DIY" speaker he built and was quite pleased with the outcome. The speaker he built was quite impressive. The sound quality and the low cost motivated me to explore this option. Thanks Lee for inspiring me to head out and accomplish the same.

| 1/2 inch MDF cabinet | | 1/2 inch plywood cabinet | | |
|---|------------------------|--------------------------|-----------|-----------|
| Electronic Audio PA130-8 5" Full Range driver | Parts Express \$95.450 | 1 | \$95.450 | \$95.450 |
| Radio Shack Terminal cap | Parts Express \$60.250 | 1 | \$60.250 | \$155.700 |
| Radio Shack | Parts Express \$82.700 | 1 | \$82.700 | \$238.400 |
| 1/2 inch screws, brass 1/4" x 1/2" | Parts Express \$80.500 | 1 | \$80.500 | \$318.900 |
| 1/2" x 1/2" 2000 Wood Screws (New Wood) | Parts Express \$84.450 | 1 | \$84.450 | \$403.350 |
| 2" X 1/2" Black 1.500 SCS | Home Depot \$100.000 | 1 | \$100.000 | \$503.350 |
| 1/2" x 1/2" x 1/2" 2000 Screws | | | | \$503.350 |



I started off by looking for an inexpensive enclosure. I wanted one with reasonable quality that also didn't require too much work to assemble. I found a nice wood enclosure for about \$25 on Amazon that came built and complete with connectors, packing and a grill. Note that enclosure has a "bass port" on the back. I chose to close it off with packing material. The difference was about a -3dB shift on the bass frequencies. Let your ears decide.

https://www.amazon.com/dp/B0B5179VVS?ref=ppx_yo2ov_dt_b_product_details&th=1

Next, I located the speaker I wanted to install in the enclosure. My objective was to limit the audio bandwidth to "voice frequencies" (300-3000 Hz) and limit the "garbage" outside of that voice range.

I tried three different speaker elements. One of the components I tried was a midrange driver. The thought was to limit the frequency response. While it did work for voice, it left a little to be desired as to the overall tone delivered. I ultimately chose a full range speaker that is typically used in studio monitors. (Dayton Audio's PA130-8) – This is available online from several sources for about \$25-30.



Dayton Audio PA130-8 5" Full Range PA Driver
Dayton Audio Part # 295-019 | Model: PA130-8
★★★★★ Read 62 Reviews | 33 Questions, 131 Answers or Write a Review

A great low-cost driver designed for use in small stage monitors, either as a replacement driver or for new construction. The broad frequency coverage and flat midrange ensure that vocals and instruments will sound just like they should.

Key Features

- Great low-cost driver designed for use in small stage monitors
- Broad frequency coverage and flat midrange ensure that vocals and instruments sound perfect
- Rugged construction

Similar items that may interest you:

- Pyle PDMW5 5" High Performance Midbass Woofer Price: \$13.29 Part #292-202

Your Price: \$24.98
Bulk Pricing: Quantity: 1-3 \$24.98/ea, Quantity: 4+ \$22.48/ea
Add to Cart

The final product, which cost under \$60.00, has exceeded my expectations. The sound delivered offers nice clear voice, limited high frequency noise and an attractive wood external speaker for the shack. I haven't decided whether to paint, stain or leave the wood natural.



73,

Dave, KO4USA

L. B. Cebik, W4RNL (sk)

Before I get to L. B Cebik, I'd like to mention HamSCI (**Ham Radio Science Citizen Investigation**). HamSCI was going to be the subject for this month, but as I finished my research and starting writing the latest QST arrived.

There's no point in duplicating the ARRL's excellent write-up. Read this month's QST (October, 2023) beginning page 59. The article is, essentially, what I planned to write.

To whet your appetite here are a few "factoids" concerning HamSCI:

It's an initiative to connect hams with scientific researchers.

Most of the collaborative work to date has concerned the ionosphere and/or the weather (terrestrial and space weather).

Involvement can be minimal, i.e., simply monitor ongoing experiments and the results. Involvement can be substantial – get involved with ongoing experiments, attend conferences and/or propose topics for research.

One of the early ham/researcher collaborations involved monitoring propagation during solar eclipses. Hams are uniquely qualified to collect data for this. Our numbers, wide dispersion and wide range of operating frequencies were what was needed. The research community couldn't do the studies without hams collecting the data. The results of hams measuring propagation during eclipses has helped develop insights into how the ionosphere works. You can check out the results on the HamSCI web site.

There are a lot of on-going projects that any ham can join. Upcoming are North America Solar Eclipse QSO Parties in October, 2023 and April, 2024. If you have an HF station you are ready to participate.

I could go on and on. HamSCI has a robust media presence. The main web page is www.hamsci.org. Information about upcoming eclipse QSO parties is available at ww.hamsci.org/contest-info. There is a HamSCI Instagram page and a Facebook page as well. HamSCI also has an active email reflector, hosted by GoogleGroups.com. If you Google "HamSCI" you will find many web sites to explore, along with interesting data that's relevant to HF operating. I'm all for science – but my favorite science is that which is actionable – by me. HamSCI has propagation insights *I can use*.

Start with the QST article and go from there. Enjoy searching for your inner scientist as you collaborate with bright minds that need your help.

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L. B. Cebik, W4RNL (sk)



L. B. Cebik was (and is) a widely recognized authority on antennas. His antenna essays are a treasure trove of information for all to enjoy. Sadly, he passed away in 2008 at the age of 68. If you are not familiar with his extensive writings you are in for a treat as you discover them. As I try to do in this column, Cebik's articles addressed practical ideas for ham antennas while avoiding advanced math wherever possible. Mostly an "internet writer" in his later years, Cebik was a long-standing contributor to every ham publication that's existed over the past few decades.

Cebik contributed articles to QST, CQ, NCJ, QEX, Ham Radio Magazine, 73 Magazine, Communications Quarterly, AntennaX (he was the editor for years), a number of QRP publications and more. He was also a technical advisor to the ARRL on the subjects of antennas and modeling. His eulogy can be found at <http://www.arrrl.org/news/antenna-expert-l-b-cebik-w4rnl-sk>. If you follow the ARRL closely you know ARRL eulogies are rare. They are reserved for those few who have made important contributions to the advancement of the hobby.

Cebik's articles have been compiled by Marcel De Canck, ON5AU, and are available on the web. They can be found at: <http://on5au.be/Cebik%20documents.html>. We owe Marcel our gratitude. Cebik placed his articles "free for the taking" on the internet as he wrote them. They were posted on his personal website. Immediately after Cebik's passing however, his articles went behind a pay wall. It is said this was *not consistent* with Cebik's philosophy and was a disservice to him and the ham community he so freely contributed to for many years. That has now been rectified.

In addition to ON5AU's web pages, the entire collection has been posted as one large PDF by OK1RR. It can be found here:

<https://ok1rr.com/dwnld/W4RNL.pdf>

The PDF contains 307 articles. It is 8847 pages! By comparison, my book *Ham Radio Tips and Tales* is 204 pages. I estimate my book is a good 10-15 hour read. How long does it take to read 8847 pages? I suggest you read Cebik's treatment of whatever antenna(s) you might be interested in, rather than trying to read it all.

Included in the 307 articles are:

- Sixty-two articles from QST, QEX and NCJ
- Two articles from CQ
- Three articles from Ham Radio Magazine
- Seven articles from 73 Magazine
- Twenty-five articles from QRP Quarterly

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Around the Shack / continued from previous page

There are also hundreds of EZNEC antenna models and 61 categories of VOACAP antenna models for use in propagation prediction.

You might wonder how 307 articles could occupy 8847 pages? Many of the articles are compendiums. Many included trade-offs between similar antennas. Many cover families of antennas, such as yagis and loops.

All of Cebik's writings have practical application. You can build an antenna using any of them. Cebik organized his writing into the following categories:

- A Little History, a Little Humor and a Little Seriousness
- Antenna Modeling Software Notes
- Practical Antenna Notes: Lower HF (Mainly) Vertical Antennas
- Practical Antenna Notes: Lower HF (Mainly) Horizontal Antennas
- Practical Antenna Notes: Upper HF (Mainly): Yagis and Relatives
- Practical Antenna Notes: Upper HF (Mainly): Other HF Arrays and Questions
- Practical Wire Antennas: VHF/UHF (Mainly)
- Transmission Lines, Impedance Coupling and Construction

There are several subjects Cebik returned to many times. These included SCVs (self contained verticals), Moxon Antennas and modeling. Most of Cebik's writing was explanatory and consistent with his life-long enthusiasm for continuing education, but in those three subject-areas he advanced the state-of-the-art.

Here is a little on each:

SCVs (Self Contained verticals) It's easy to be dismissive of vertical antennas for HF. When we hear "vertical" we think "radials" and "radiates equally poorly in all directions." If you think that way, you need to read Cebik's essays on SCVs. By definition, SCVs don't use radials and many of the configurations have significant gain. SCVs are vertically polarized (without radials) and in many cases are impervious to the ground. They are often modeled in free space since ground characteristics barely matter. SCVs include delta loops, square loops, half-squares, etc.

Cebik begins his treatment by presenting the SCV "family tree" and goes on to trade-off each SCV against the others. I've used a lot of low-band HF delta loops over the years, relying on Cebik's insights. On lower HF, e.g., 80 and 160 meters, vertical polarization yields low take-off angles – great for DXing. To attain that without radials seemed like the Holy Grail when I first discovered it. High-performance radial fields for 80 and 160 can be real monsters and they are susceptible to ground conditions (which you can't do anything about).

The Moxon Antenna Les Moxon, G6AN (sk) invented the Moxon antenna around 1999. "Around" because similar antenna concepts can be found all the way back to the 1930s. In 1999 Moxon published his specific design. Cebik took note and began writing about Moxons in 2000. A two-element Moxon can have as much as 10 dBi forward gain and over 15 dBi front-to-back - far exceeding the performance of a 2-element Yagi. Yet, a Moxon is smaller than a conventional two-element Yagi. Cebik wrote extensively about the antenna. From the Wikipedia entry on the Moxon Antenna: "L. B. Cebik (W4RNL) made detailed comparisons and calculations of several different versions of Moxon Antennas." Les Moxon invented the Moxon Antenna, but L. B. Cebik explained and refined it and in so doing popularized it.

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Around the Shack / continued from previous page

Modeling Some of Cebik's earliest articles concerned modeling. All of his articles presented 'as-modeled' performance of the antenna(s) under discussion. Antenna modeling has gone through many iterations over decades, but modern computers and introduction of the Numerical Electromagnetics Code (NEC) finally enabled what is now the ubiquitous antenna modeling program: EZNEC. EZNEC was released by Roy Lewallen, W7EZ, in 1995. Cebik's performance analyses, based on EZNEC, began in 1997.

Shown is a picture of Cebik and Dave Sumner, K1ZZ, taken at ARRL HQ. It was on the occasion of Cebik visiting to assist the ARRL in developing course material on antenna modeling. The visit predates Sumner becoming ARRL CEO (2001).



At this point I hope I've convinced you that Cebik was a prolific writer. He was – but there is more – there are his books! In addition to his ham radio activities, Cebik had a "daytime job." He had a PhD in Philosophy and when he passed away he was Professor Emeritus of Philosophy at the University of Tennessee – Knoxville. His books cover ham radio and philosophy.

Ham Radio Books by L. B. Cebik:

- ARRL Antenna Modeling Course
- Antennas from the Ground Up
- Setting up and Using Your Own Ham Shack
- Seven Steps to Designing your Own Ham Equipment

Philosophy Books by L. B. Cebik:

- Concepts, Events and History
- Advances in Bioethics: Violence, Neglect, and the Elderly 1997 to 2008
- Fictional narrative and truth
- Nonaesthetic Issues in the Philosophy of Art: Art as a Social Realm

Anytime you contemplate erecting a new antenna or modifying an existing one, it will be worth your while to read the relevant Cebik article(s). They cover VLF to UHF. They cover wire antennas, yagis, quads, phased arrays, etc. Are you musing over how to get a good 160 transmit antenna on your small lot? Cebik has a design for you.

On a personal note – I put several of Cebik's articles to use at N4GG. In his article: *The "Ideal" Back-up Antenna for 80-20 meters* he suggested the answer to the question: If I could only have one antenna, what would it be? His answer: An 88 foot doublet. An 88 foot doublet is short but not too short for 80, a little long for 40 and 30 and approximates an EDZ (extended double zepp) on 20. An 88 foot doublet became the kernel for an antenna I designed – one that became my best antenna for many years. It was a bottom fed EDZ stack on 20 meters (an EDZ Lazy-H) and a two-doublet stack fed in quadrature on 40. All of it was fed against radials as a Marconi on 160. It was a great antenna. That antenna will be the subject of a future column.

73,

Hal N4GG

HamJam 2023 Prizes so far! / HamJam 2023 Project Team

While the HamJam 2023 webpage contains the most up to date prize listing for this year's HamJam event, we thought you'd appreciate a link to the page along with some photos. You can purchase your HamJam 2023 Raffle Tickets on the Marts.

HamJam 2023

Presented by North Fulton Amateur Radio League



HAMJAM 2023

SATURDAY NOVEMBER 11, 2023 | 8:00AM —1:00PM
Preston Ridge Community Center, 3655 Preston Ridge Road, Alpharetta, GA 30005.

| | | |
|----------|---|-----------|
| 1 Ticket | RAFFLE | 5 Tickets |
| \$5.00 | Sponsored By NORTH FULTON AMATEUR RADIO LEAGUE | \$20.00 |
| Donation | Net Proceeds Benefit YOUTH Programs and Scholarships | Donation |

See www.hamjam.info for complete list of prizes and rules.

FREE ADMISSION! FREE ADMISSION! FREE ADMISSION! FREE ADMISSION!

BUY YOUR RAFFLE TICKETS HERE!

<https://nfarl.org/mart/2023-hamjam-raffle-tickets/>

See the detailed raffle prizes [here](#)

Flex Radio Systems MAESTRO CONTROL CONSOLE



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ICOM IC-7300 HF/50 MHz 100 Watt SDR Transceiver



RigExpert Antenna Analyzer STICK-PRO



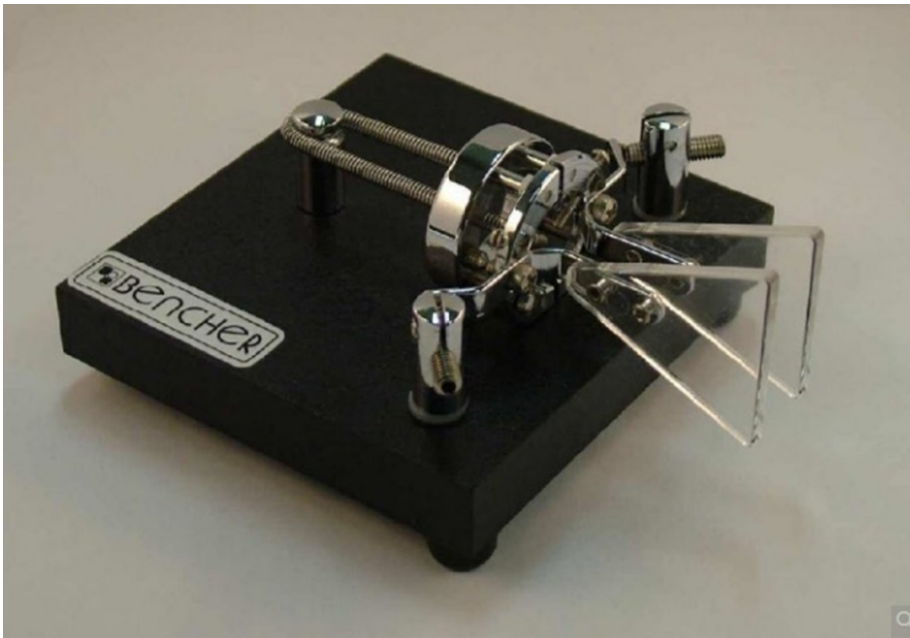
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Buddistick PRO Portable HF Antenna (40M – 6M)



Vibroplex Bencher BY-1 Iambic CW Paddle



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MFJ-259D Antenna Analyzer



Description

Product Manuals

Reviews

The Best Thing
Since Sliced Bread!

MFJ-259D -- World's most popular Antenna Analyzer just got better! Now covers super wide range -- 100 KHz-230 MHz and 2200 Meter band!

Super easy to use! Set the bandswitch and tune -- just like your transceiver. SWR, Complex antenna Impedance and frequency are all instantly displayed simultaneously!

Gives you complete picture of your antenna Read SWR, return loss and reflection coefficient at any frequency all at once. Read Complex Impedance as series resistance and reactance (R+jX) or as magnitude (Z) and phase(degrees). Determine velocity factor, coax cable loss in dB, length of coax

Begali Iambic Signature Palladium Iambic CW Paddle



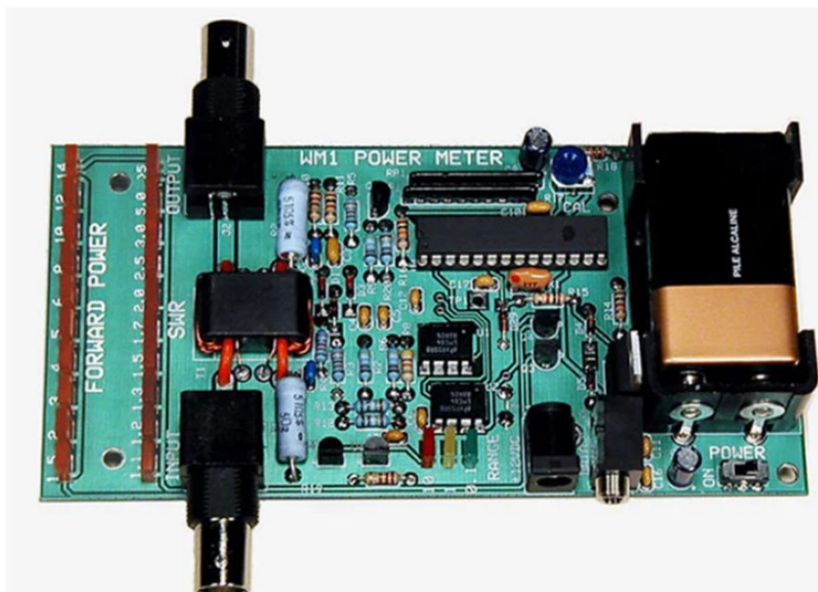
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Wolf River Coils TIA1000



Elecraft W1 Wattmeter kit



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Air Boss pneumatic antenna launcher with reel kit and 5 sinkers



Ham Radio Deluxe full package

(2) Ham Radio Deluxe full packages—each drawn & awarded separately



HOME FEATURES ▾ BUY NOW! DOWNLOADS SUPPORT ▾ BLOG CONTACT US ▾ 

World's Most Popular Ham Radio Software for Amateur Radio Operators



Ham Radio Deluxe - The Radio Amateur's Best Asset

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HamJam 2023 Prizes so far! / HamJam 2023 Project Team

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ARRL \$50 Gift Certificate

(2) ARRL \$50 Gift Certificates —each drawn & awarded separately



N3FJP Contact Log

The screenshot shows the N3FJP Amateur Radio Software interface. At the top is a blue header with a globe icon and the text "N3FJP Amateur Radio Software." Below the header is a navigation menu with items: Home, Purchase, General Log, Contest Logs, Specialty Logs, Additional, Contact Us, About Us, Help. The main content area displays "Amateur Contact Log 7.0.9" with a note about system requirements. A red button with a download icon says "Download Amateur Contact Log Now!". Below that is a link for upgrading from previous versions. The bottom part of the screenshot shows a "Recent Contacts" table with columns for Call, Date, Time, Band, Mode, Power, etc. The table contains several rows of contact data.

| Call | Date | Time | Band | Mode | Power | Time On | Sent | Rec | Country |
|-------|------------|-------|------|------|-------|---------|------|-----|---------|
| K1ABC | 2023-09-18 | 10:45 | 15 | SSB | 100 | | | | USA |
| K1DEF | 2023-09-18 | 10:45 | 15 | SSB | 100 | | | | USA |
| K1GHI | 2023-09-18 | 10:45 | 15 | SSB | 100 | | | | USA |
| K1JKL | 2023-09-18 | 10:45 | 15 | SSB | 100 | | | | USA |
| K1MNO | 2023-09-18 | 10:45 | 15 | SSB | 100 | | | | USA |
| K1PQR | 2023-09-18 | 10:45 | 15 | SSB | 100 | | | | USA |
| K1STU | 2023-09-18 | 10:45 | 15 | SSB | 100 | | | | USA |
| K1VWX | 2023-09-18 | 10:45 | 15 | SSB | 100 | | | | USA |
| K1YZA | 2023-09-18 | 10:45 | 15 | SSB | 100 | | | | USA |
| K1BCD | 2023-09-18 | 10:45 | 15 | SSB | 100 | | | | USA |
| K1EFG | 2023-09-18 | 10:45 | 15 | SSB | 100 | | | | USA |
| K1HIJ | 2023-09-18 | 10:45 | 15 | SSB | 100 | | | | USA |
| K1KLM | 2023-09-18 | 10:45 | 15 | SSB | 100 | | | | USA |
| K1NOP | 2023-09-18 | 10:45 | 15 | SSB | 100 | | | | USA |
| K1QRS | 2023-09-18 | 10:45 | 15 | SSB | 100 | | | | USA |
| K1TUV | 2023-09-18 | 10:45 | 15 | SSB | 100 | | | | USA |
| K1WXY | 2023-09-18 | 10:45 | 15 | SSB | 100 | | | | USA |
| K1ZAB | 2023-09-18 | 10:45 | 15 | SSB | 100 | | | | USA |
| K1CDE | 2023-09-18 | 10:45 | 15 | SSB | 100 | | | | USA |
| K1FGH | 2023-09-18 | 10:45 | 15 | SSB | 100 | | | | USA |
| K1IJK | 2023-09-18 | 10:45 | 15 | SSB | 100 | | | | USA |
| K1LMN | 2023-09-18 | 10:45 | 15 | SSB | 100 | | | | USA |
| K1OPQ | 2023-09-18 | 10:45 | 15 | SSB | 100 | | | | USA |
| K1RST | 2023-09-18 | 10:45 | 15 | SSB | 100 | | | | USA |
| K1UVW | 2023-09-18 | 10:45 | 15 | SSB | 100 | | | | USA |
| K1XYZ | 2023-09-18 | 10:45 | 15 | SSB | 100 | | | | USA |

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2024 Dayton Hamvention Ticket (May 17-18-19)

(6) 2024 Dayton Hamvention Tickets (May 17-18-19) —each drawn & awarded separately



ARRL \$25 Gift Certificate

(2) ARRL \$25 Gift Certificate —each drawn & awarded separately



Check HamJam 2023 website for updates!

Extra Extra! / From the Extra Class Question Pool

New info for Technicians and Generals and a refresher for Extra Class Licensees!



E5C01

Which of the following represents capacitive reactance in rectangular notation?

- A. $-jX$
- B. $+jX$
- C. Delta
- D. Omega

See answer on the last page!

The new Amateur Extra-class license examination question pool, effective from July 1, 2020, through June 30, 2024, has been released and is available at the National Conference of Volunteer Coordinators (NCVEC) [website](#). Note the new Technician class license examination question pool is effective July 1, 2022.

Ian NV4C and his team hold license test sessions on the second Saturday of each month. For more information including upcoming test dates, [click here](#).

Congratulations New & Upgraded Hams! / Wes Lamboley, W3WL

FIRST TIME SINCE 2008

There are no new hams to be announced this month as the exam tables at Slope's Barbecue early Saturday morning were empty. Below is a quote from Ian -NV4C- the leader of the NFARL VE team

"For the first time since I've been involved with the NFARL VE Team (going back to around 2008), except for when we were shut down due to COVID, we have nobody signed up to test this weekend. Consequently, I am cancelling the October 2023 exam session."

But - this is a great opportunity to thank Ian and his VE Team for all the years of service to our hobby!

THANK YOU ALL!

Contest Corner

These are some contests and events besides the "routine K1USN, CWops, and other organizational events" scheduled to occur the near future

| Contest Name | Time & Date |
|--|--|
| + Nevada QSO Party | 0300Z, Oct 14 to 2100Z, Oct 15 |
| + SKCC Weekend Sprintathon | 1200Z, Oct 14 to 2400Z, Oct 15 |
| + Solar Eclipse QSO Party | 1200Z-2200Z, Oct 14 |
| + Arizona QSO Party | 1500Z, Oct 14 to 0500Z, Oct 15 |
| + Pennsylvania QSO Party | 1600Z, Oct 14 to 0400Z, Oct 15 and 1300Z-2200Z, Oct 15 |
| + South Dakota QSO Party | 1800Z, Oct 14 to 1800Z, Oct 15 |
| + PODXS 070 Club 160m Great Pumpkin Sprint | 2000Z, Oct 14 to 2000Z, Oct 15 |
| + Run for the Bacon QRP Contest | 2300Z, Oct 16 to 0100Z, Oct 17 |
| + ARRL School Club Roundup | 1300Z, Oct 16 to 2359Z, Oct 20 |
| + VHF-UHF FT8 Activity Contest | 1700Z-2100Z, Oct 18 |
| + AGCW Semi-Automatic Key Evening | 1900Z-2030Z, Oct 18 |
| + Walk for the Bacon QRP Contest | 0000Z-0100Z, Oct 19 and 0200Z-0300Z, Oct 20 |
| + NTC QSO Party | 1900Z-2000Z, Oct 19 |
| + Telephone Pioneers QSO Party | 1700Z-2000Z, Oct 20 (CW/Dig) and 2200Z, Oct 20 to 0100Z, Oct 21 (SSB) and 1700-2000Z, Oct 21 (SSB) and 2200Z, Oct 21 to 0100Z, Oct 22 (CW/Dig), 2023 |
| + 10-10 Int. Fall Contest, CW | 0001Z, Oct 21 to 2359Z, Oct 22 |
| + YLRL DX/NA YL Anniversary Contest | 1400Z, Oct 21 to 0200Z, Oct 23 |
| + New York QSO Party | 1400Z, Oct 21 to 0200Z, Oct 22 |
| + Stew Perry Topband Challenge | 1500Z, Oct 21 to 1500Z, Oct 22 |
| + Classic Exchange, Phone | 1300Z, Oct 22 to 0700Z, Oct 23 and 1300Z, Oct 24 to 0700Z, Oct 25 |
| + Illinois QSO Party | 1700Z, Oct 22 to 0100Z, Oct 23 |
| + SKCC Sprint | 0000Z-0200Z, Oct 25 |
| + Zombie Shuffle | 1500-2400 local, Oct 27 |
| + ARRL EME Contest | 0000Z, Oct 28 to 2359Z, Oct 29 |
| + CQ Worldwide DX Contest, SSB | 0000Z, Oct 28 to 2359Z, Oct 29 |
| + Ham Spirit Contest, CW | 0600Z, Oct 28 to 0559Z, Oct 29 |
| + Classic Exchange, CW | 1300Z, Oct 29 to 0700Z, Oct 30 and 1300Z, Oct 31 to 0700Z, Nov 1 |
| + Silent Key Memorial Contest | 0600Z-0859Z, Nov 1 |
| + VHF-UHF FT8 Activity Contest | 1700Z-2100Z, Nov 1 |
| + ARRL Sweepstakes Contest, CW | 2100Z, Nov 4 to 0300Z, Nov 6 |
| + PODXS 070 Club Triple Play Low Band Sprint | 0000Z, Nov 11 to 2359Z, Nov 13 |
| + FISTS Saturday Sprint | 0000Z-2359Z, Nov 11 |
| + 10-10 Int. Fall Contest, Digital | 0001Z, Nov 11 to 2359Z, Nov 12 |
| + CQ-WE Contest | 1900Z-2300Z, Nov 11 (CW/Digital) and 0100Z-0500Z, Nov 12 (Phone) and 0100Z-0500Z, Nov 13 (CW/Digital) 1900Z-2300Z, Nov 12 (Phone) and |
| + AWA Bruce Kelley 1929 QSO Party | 2300Z, Nov 11 to 0300Z, Nov 13 and 2300Z, Nov 18 to 0300Z, Nov 20 |
| + North American SSB Sprint Contest | 0000Z-0400Z, Nov 12 |

NFARL Upcoming Events and Dates

- **Every Sunday — NFARES net** - 8:30 PM - 147.06 MHz (+) PL 100
All licensed hams are welcome, you do not need to be an ARES member!
Check [NFARES.org](https://www.nfares.org) for more information.
- **Every Monday — Tech Talk** - 8:30 PM - 145.47 MHz (-) PL 100
NFARL's flagship technical based "non check-in" net. The net is always better when using the web based chat room (Discord) but Internet is not required to join the net.
Check [NFARL Nets](#) for more information and "how to". Here's the link to the NFARL server on Discord web app <https://discord.gg/spr2a9D>
- **Every Wednesday — Hungry Hams Lunch Bunch** - 11:15 AM
Location: Slope's BBQ, 34 East Crossville Road, Roswell, GA 30075 (770) 518-7000
Dining Room is OPEN. Get Take Out if you can't stay!
- **Every Thursday — YL Net** — 8:00 PM - 9:30 PM - 145.47 MHz (-) PL 100
Check NFARL Nets [website](#) for "how to." This is a great opportunity for YL's to get on the radio with other YL's! OM's (guys) are welcome to listen in to this YL net.
- **Every Wednesday — CW CHAT** — 8:00 PM on ZOOM.
New meeting link and credentials:
<https://us06web.zoom.us/j/84722087419?wd=VIN2d0xvQVhKcDIULOR4N1hQMTQ2UT09>
Meeting ID: 847 2208 7419; Passcode: CW-CHAT



SLOPE'S BBQ

- **Second Tuesday — NFARES Meeting - November 14, 2023 *Now meeting in-person!***
Meeting location: The Church of Jesus Christ of Latter-day Saints, 500 Norcross St. Roswell, GA 30075. Enter using the "Family History Center" Door. **See [NFARL website](#) for details & Zoom link.**
NFARES members receive Zoom invitation automatically.
- **Second Saturday – VE Testing - NFARL November 11, 2023 session:** 8:30 - 10:30AM *Preston Ridge Community Center, 3655 Preston Ridge Road Suite 100, Alpharetta, GA 30005.* Seating will be limited to 20 - preregistration is required. [Registration is by email to Ian NV4C](#); monitor registration opening & closing on the website. [Click here for more information.](#)
- **NFARL Club Meeting— Tuesday, October 17, 2023— 7:00 PM** Preston Ridge Community Center, 3655 Preston Ridge Road Suite 100, Alpharetta, GA 30005. The facility's doors will open at 7:00PM. Our meeting will begin at 7:30PM and should conclude by 9:00PM. Officer Elections! & Our meeting topic is Antenna Modeling Programs and Techniques , presented by Lee Johnson, N4WYE
- **Fourth Tuesday – NFARL Executive Team Meeting** - October 24, 2023, 7:00 PM. **Online meeting only** — monitor website and NFARL Groups.io reflector for updates.

2023 STONE MOUNTAIN HAMFEST— November 4-5, 2023

Gwinnett County Fairgrounds, 2405 Sugarloaf Parkway, Lawrenceville, GA 30045

Hours: Saturday 8 AM — 4:00 PM, Sunday 8 AM — 2 PM

<https://stonemountainhamfest.com/>

- **HamJam 2023— November 11, 2023 8:15AM - 1:00PM**
Preston Ridge Community Center
3655 Preston Ridge Road Suite 100, Alpharetta, GA 30005

Contact Us

| | | |
|---|---|--|
| President | Mike Riley KN4OAK | President@nfarl.org |
| Vice President | Steve Randall KO4VW | VicePresident@nfarl.org |
| Secretary | Martha Muir W4MSA | Secretary@nfarl.org |
| Treasurer | John Tramontanis N4TOL | Treasurer@nfarl.org |
| Activities Chair | Dave Bisciotti KO4USA | Activities@nfarl.org |
| Membership Chair | Wes Lamboley W3WL | Membership@nfarl.org |
| Past President | John Norris N4IHV | PastPresident@nfarl.org |
| Mentors / Elmers | John Hathcock WE4AUB | Elmers@nfarl.org |
| 2023 Field Day Chair | Chair- Steve Randall, KO4VW Co-Chair-Dave Bisciotti, KO4USA Co-Chair-Mike Riley, KN4OAK | FieldDay@nfarl.org |
| Scout Coordinator | Jon Wittlin K4WIT | k4wit@nfarl.org |
| ARES Liaison and Community Relations | Jim Paine N4SEC | n4sec@nfarl.org |
| Repeater Operations | Mike Roden K5JR | Repeaters@nfarl.org |
| Web Master | Bill Cobb K4YJJ | Webmaster@nfarl.org |
| VE Team Lead | Ian Kahn NV4C | nv4c.ian@gmail.com |
| eNews Team | Help Wanted!! | enews@nfarl.org |

North Fulton Amateur Radio League

P.O. Box 1741
Roswell, GA 30077

nfarl.org

eNEWS can be located online at:
<https://nfarl.org/enews-index>

Club Repeaters

| Frequency—Description | P.L. Tone | Location |
|---|-----------|---------------------|
| 145.470 (-) EchoLink Node 560686 NF4GA-R | 100 Hz | Morgan Falls |
| 147.060 (+) Primary ARES Repeater EchoLink Node 889158 NF4GA-L | 100 Hz | Roswell Water Tower |
| * 224.620 (-) Joint Venture with MATPARC | 100 Hz | TBD |
| 443.150 (+) | 100 Hz | Roswell Water Tower |
| 444.475 (+) | 100 Hz | Morgan Falls |
| * 927.0125 (-) | 146.2 Hz | TBD |

* Currently off the air

Club Call signs: NF4GA and K4JJ

Extra Extra answer: A (question E5C01)

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Please support our sponsors and affiliates by a visit their websites.

