



The Signal Report

A Publication of the Greenwood Amateur Radio Society (GARS)

VOLUME 20 ISSUE 1

JANUARY 2022

[HTTP://WWW.W4GWD.ORG](http://www.w4gwd.org)

W4GWD@ARRL.NET

2022 CLUB

OFFICERS

President

Russell Myrick, KN4TUI

Vice President

Tommy Owens, K4XB

Secretary

George Crane, W3RXF

Treasurer

Tedd Davison, AI4WN

Repeater Trustee

Buddy Willis, W4DEW

Activities Manager

Mitchell Litwer, KJ4JGP

Editor in Chief

Michael Wills, KA4CSM

Librarian

Jack Witt, KN4SIK

The W4GWD Repeater Network

147.165+ t107.2

Echolink: 584003

443.900+ t107.2

W4GWM/R

145.420- DV

W4DEW/R

146.910- t123.0



Analog Repeaters are up.
DMR and D-Star are up.
Echo link is down, continuing to undergo technical evaluation.
Repeater Linking Project-Linked during nets and special occasions

January 2022

HAPPY NEW YEAR

Unless otherwise notified the next GARS club meeting will be held "On the Air" and on Zoom on January 11, 2022 at 8 p.m. A net roll call will be taken and it will become the official attendance roster for this meeting. The GARS 2m (147.165) and 70 cm (443.900) repeaters will be linked during this meeting time.



Greenwood Amateur Society Recurring Events:



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Chat 'N' Chews

Have been postponed until further notice due to Covid.

Weekly Nets

Each Thursday night at 9pm on the 147.165+ machine, The Greenwood Amateur Radio Society holds our weekly 2 meter net.

Our UHF net on 443.900+ is held Mondays at 8pm

Help spread the word for everyone to check-in to our nets. If you would like to fill in or be a backup net controller please contact [Tedd Davison, A14WN](#).

VE Exam Session

Due to Covid all GARS ARRL Volunteer Examiners (VE) sessions have been postponed until further notice. Please contact Buddy Willis, w4dew@arrl.net with any questions.

Congratulations!!

Happy Birthday!

Diane Fradelle	KC4ANW	Jan 6
Buddy Willis	W4DEW	Jan 7
Kin Maffett	KJ4BAK	Jan 13
Sue Wiener	Fmly Mbr	Jan 17
Gail Davison	Fmly Mbr	Jan 21

Happy Anniversary!

Tommy (K4XB) & Angela Owens Jan 8
Paul (KO4ALK) & Connie Anderzunas Jan 22

Are you an ARRL Member? Joining ARRL helps protect our rights as Amateur Radio Operators as well as providing education, QSL Bureau, technical advise, and the ARRL VEC. <http://www.arrl.org>



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Presidents QSO



The Holiday Season is coming to a close. And 2022 is here with new beginnings for us all.

Covid-19 continues to be with us and with another variant. But as noted last month we all need to be cautious and determine our level of interactive and public activities.

Our monthly club meeting on Tuesday January 11th 2022. Plans were to have in-person at Wesley Commons Library. Several members have indicated they would prefer another On-Air meeting. So we may try a Hybrid On-Air/Zoom and In-Person. More on that before meeting date.

Hope you are thinking of names for officers for 2022-23 and be ready to mention them to the nominating committee when it is formed.

I really think doing activities noted above would encourage and hopefully increase participation in our weekly nets, meetings, etc. And always open to comments, suggestions and concerns from our membership.

Every member adds value to our club and Amateur Radio at large. So be thinking of how you can contribute to our meetings by presenting or arranging a presentation. Consider upgrading your license, becoming a Net Control operator or VE. Maybe helping someone put up that new antenna. Field Day will be here before we can turn around 3 times so plan on some activities we may conduct.

Remember to pay your membership dues if you have not already done so. I certainly wish each of you and your families a very Happy, Healthy and Prosperous New Year.

See You Soon

Russ, KN4TUI



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David Haynes, AJ4PU became a Silent Key on November 26, 2021. He was a good friend and mentor to many of our club members. Buddy Willis, W4DEW reminded me of a story as related to me by Adam Shirley, WJ4X. “It started by me (Adam) playing a joke on David, AJ4PU. David had a very bad habit of timing out the repeater. He did it a lot. So to fun him a little bit at the Christmas Dinner I (Adam) had a plaque made up by the Sign Man and gave it to David in honor of having a *Golden Mic*. Well, David being the kind of fella he was decided to pass it on to another deserving person the next year and so it evolved into more of a appreciation award.” He was the first recipient of the Golden Mic award, a active member of the club, Net Controller (still holds the record for most check-ins during a net) , VE and Vietnam Veteran, Our condolences to his wife Margaret, KJ4HDK and his family. He will be missed.

Thank you to Mitch KJ4JGP and Di N4DLL for there excellent zoom presentation on the [S.T.E.A.M](#) program. Much discussion followed concerning the feasibility of our clubs involvement in a local school next year. Topics included foxhunts, Morse code, sending messages via Apers & slow scan, to name a few. Mitch will be emailing a survey soon to all GARS members. Watch for it.

Also during the zoom session was a discussion on leaving on the tone on both GARS repeaters. Doing so would help to prevent “bleed over” and generally quite the repeaters down. Only downside is we have club members using rigs without tone capability, therefore effectively denying them access to the repeaters. This will be revisited. If you have any input please contact [Russ](#) or any club officers.

We had 15 of our members meet on Zoom immediately after our roll call on the air on 12-14. “On the Air” meetings will continue to be held simultaneously for the time being. Russ KN4TUI, Tommy K4XB and David KY4GM are available to assist and answer questions with set up and use on there electronic devices. We hope to resume in person meetings in January 2022. Stay tuned.

Easy to make 10 meter antenna

by Kevan Nason, N4XL

Now that 10 meters is beginning to open many hams will soon have the opportunity to put many DX stations in the log using SSB, CW or RTTY instead of FT8. For those who haven't had the experience of 10 meters at the peak of the sunspot cycle you are in for a pleasant surprise. Peak sunspot numbers are still likely three years or so away, but propagation will gradually but consistently get better as we approach the peak.

Jeff Clarke, KU8E, is a very successful contester from our neighboring state of Georgia. Last weekend during the 2021 ARRL 10 meter contest he put 841 stations in his log in just 17 hours. Although he operated using 900 watts, experienced operators know just as speakers make the stereo sound good the antenna is the critical station component determining how many stations you log. (If you doubt that compare driving around using your HT and rubber duck antenna to using the same HT with a roof mounted $\frac{1}{4}$ wave mag mount.) So... Did Jeff use a 4 element monoband yagi on top of a 100 foot tower? Nope. Did he buy a \$150 commercial aluminum super-whamma-dyne guaranteed to work if you only send us your money wonder antenna? Nope. His antenna was 36 feet of ordinary copper wire.

Jeff used an easy to make 10 meter rectangular loop fed with coax only 40 feet in the air. It can be hoisted to a tree limb or mounted on a mast. Its feed point impedance is 50 ohms so you do not need an antenna tuner or matching network. That is good because he avoided the signal loss implicit in using those devices. You should use a quality 1:1 balun at the feed point, but many get adequate performance by simply coiling a few turns of coax where it connects to the antenna.

There isn't anything special about the #12 wire. A general rule is larger diameters are better, but #14 or #16 should work fine too. If you don't have any laying around the house pick some at a local hardware store. Dimensions change slightly but insulated wire or not doesn't really matter. Wood or PVC could be used as spreaders. SWR variations could result from uninsulated wire contacting rain soaked wood spreaders. Paint or varnish would help prevent that. Gray PVC pipe has better Ultraviolet light resistance and should last longer than white PVC. You can use a commercial coax to wire connecting device if you want. For decades I made wire antennas the cheap way using an egg insulator. Stripped some wire off the end of the coax and pulled the braid from around a few inches of the center insulation. Looped the coax around the egg insulator and used it to support the weight of the coax when hoisted into the air. Soldered the center to one side of the wire antenna and the braid to the other. Then put some silicone sealant around the coax ends to keep water from entering it through the open braid and center insulation. You might use alternate methods though, particularly if run high power. Heating might cause the coax to fail at the loop point of the coax. Heating softens the coax center insulation allowing the center wire to migrate through it and contact the braid. It isn't good to short your antenna jack like that.

Be aware the 36 foot measurement is approximate. You undoubtedly will need to raise and lower the antenna a couple-few times for trimming until the lowest SWR point is at the frequency you desire. It is a good idea to connect, but not solder, the wires until the final real world dimensions are reached.

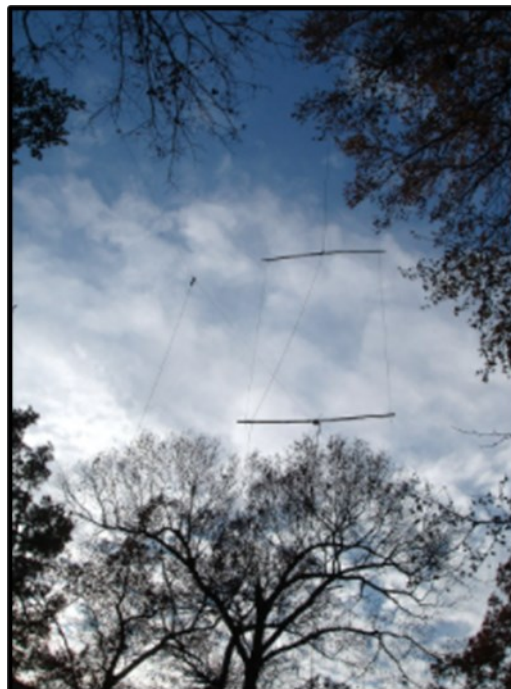
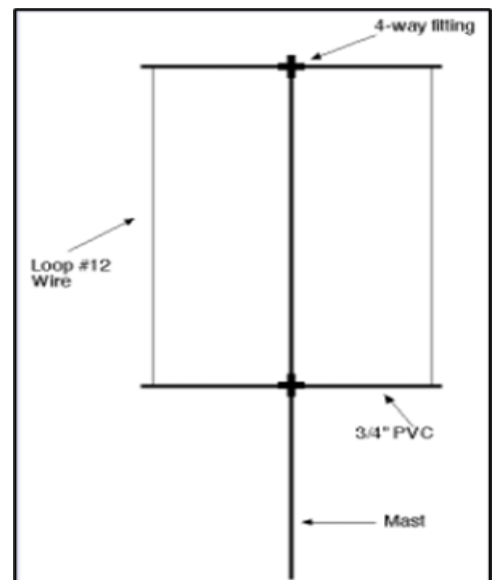
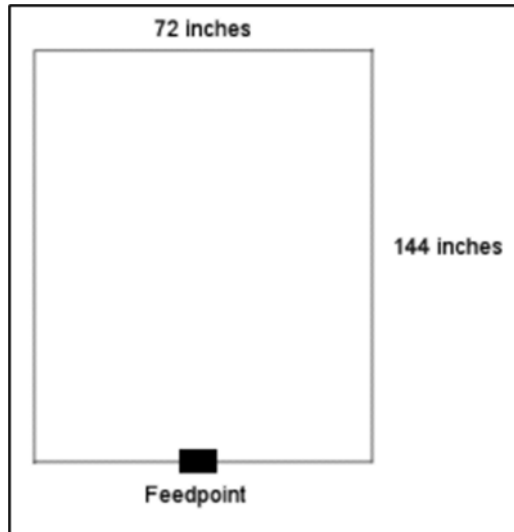
Easy to make 10 meter antenna, Continued



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Modeling shows the antenna provides 2 dB gain over a dipole. That won't be noticeable when signals are strong but will make a difference when you are struggling to copy weak signals right at the bands noise level. As a bonus, this proven design may also help you make more FT8 contacts.

More information can be found at <http://amfone.net/Amforum/index.php?>



On July 1, 2022 a new element 2 Technician class question pool will take effect for examinations.





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Here are some notable amateur radio operators known for prominent positions and/or achievements, Courtesy of AF5NP

W1AW Hiram Percy Maxim, ARRL founder, silencer inventor
 K1JT Dr. Joseph Taylor, 1993 Nobel Prize Winner in Physics
 KB1NXP John Baldacci, former Governor of Maine
 W1ZE Irving Vermilya, first licensed radio amateur in the US
 K2AMH Robert Moog, inventor of Moog synthesizer
 W2BML Dr. Harold Beverage, inventor of Beverage antenna
 K2GL Hazard Reeves, inventor of stereo sound system
 KB2GSD Walter Cronkite, newscaster
 K2ORS Jean Shepherd, writer, humorist
 NE2Q Jay Kolinsky, electronic siren inventor
 W2SGG Robert Cusumano, co-inventor of printed circuits
 K2ZCZ George Pataki, former Governor of NY
 NS3T Jamie Dupree, radio news correspondent
 W4CGP Chet Atkins, singer, composer
 WB4KCG Ronnie Milsap, singer, songwriter
 K4EB Larry Junstrom, 38 Special band member(bass) and founding Lynyrd
 Skynyrd member
 N4KET David French, CNN news anchor
 W4LAA Paul Kangas, co-anchor of Nightly Business Report
 K4LIB Arthur Godfrey, TV personality
 WD4LZC Larnell Harris, country & Christian music singer
 WB4MCJ Carl Rochelle, news columnist
 WA4SIR Ron Parise, astronaut
 KD4WUJ Patti Loveless, singer
 W4XAA/K2AES Tom Kneitel, magazine editor, columnist
 K4ZVZ Gen. Paul Tibbets, WWII Enola Gay pilot (first atom bomb drop)
 WA5AVA Dale Seidenschwarz (Clyde Clifford), Beaker St. radio host
 KF5BOX Doug Wheelock, ISS astronaut
 K5CSG Peggy Sue Gerron, subject of Buddy Holly hit song
 W5GLJ George Marti, remote broadcast technology pioneer
 W5LFL Dr. Owen Garriot, astronaut
 N5QWL Jay Apt, astronaut
 N5RAX Linda Godwin, astronaut
 WB6ACU Joe Walsh, (Eagles) singer, guitarist, composer, record producer
 W6BNB Robert Shrader, Electronic Communications text author
 K6DUE Roy Neal, TV personality, news correspondent

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Notable radio operators, Cont'd

W6EZV/K0GRL General Curtis Lemay, WWII leader and 1968 VP candidate
 N6FFT Ray Briem, radio talk show host
 N6FUP Stu Cook, bass player Creedence Clearwater Revival
 W6FZZ Samuel F.B. Morse III, great grandson of code inventor
 KA6HVK Burl Ives, singer and entertainer
 NN6JA John Amodeo, TV Producer
 N6KGB Stewart Granger, actor
 KB6LQS Dick Rutan, pilot of Voyager airplane
 KI6M Stu Gilliam, comedian
 W6OBB Art Bell, syndicated radio personality
 KD6OY Garry Shandling, actor, comedian
 KE6PZH/FO5GJ Marlon Brando, actor
 WB6RER Andy Devine, actor
 W6UK Alvino Rey, musician, band leader
 KA6UXR Dr. Alexander Comfort, author
 N6YOS Priscilla Presley, actress
 W6ZH Herbert Hoover, Jr. IARU & ARRL President
 W6ZH/W6APW Herbert "Pete" Hoover III, AMSAT fundraiser
 W7EQI Greg Walden, U.S. Congressman (1999-2020)
 KA7EVD Donnie Osmond, singer
 NK7U Joe Rudi, major league baseball player
 K7UGA/6BPI/K3UIG Barry Goldwater, US Senator, 1964 Pres. candidate
 8CR Powell Crosley, broadcast pioneer, founded WLW
 W8OK Frank Schwab, Mr. Hamvention
 K9EID Bob Heil, concert sound engineer, inventor
 W0CXX Art Collins, founder of Collins Radio
 W0FQY Carl Mosley, founder of Mosley Electronics
 DG1KIM Ulrich Walter, astronaut
 EA0JC Juan Carlos, King of Spain
 HS1A Bhumiphol Adulayadej, King of Thailand
 I0FCG Francesco Cossiga, President of Italy
 JY1 King Hussein of Jordan
 RV3DW Sergei Avdeyev, astronaut
 TI2DR David Ruben M. D., author
 VU2RJ Rajiv Gandhi, Prime Minister of India
 YN1AS General Anastasio Somoza, President of Nicaragua
 9N1MM Rev. Marshall Moran, Jesuit Priest, Educator (Nepal)



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George Crane W3RXF, has been a GARS member since 2014. He has been the club Secretary for 6 of those years, a position he has held with great success, commitment, and enthusiasm. He will be stepping down soon. If you are interested in filling this position please contact [George](#), [Russ Myrick](#) or any club officer. This is a great opportunity to contribute to your club.



Annual dues for the Greenwood Amateur Radio Society (GARS) are now due and payable to [Tedd Davison](#), AI4WN. They are \$25.00 per individual membership, plus \$2.00 for spouse, plus \$2.00 more per student. In order to remain current they must be paid before April 1, 2022.

Radio Digest, January 5, 1923

[Radio-Digest-1923-01-06.pdf \(worldradiohistory.com\)](#)

Interesting article on FT8, submitted by Tommy Owens, K4XB

<https://www.flexradio.com/insider/articles/ft8-tipping-point-for-ham-radio/>

I could use some support by GARS members submitting ham related articles, personal antidotes, classifieds etc.

Mike



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Greenwood Amateur Radio Society Silent Key Memorial

Established in Memory of all Greenwood Amateur Radio Society (GARS) Radio Operators who were club members and are now Silent Keys.. They were friends, family, associates and all are missed.

<u>Callsign</u>	<u>Name</u>	<u>Silent Key</u>	
W4GSW	Willis, Gay	8/11/2010	*
KD4YDI	Hendrix, Todd	3/8/2014	
W4PY	Wise, Warren	2/14/2015	*
KC4KZ	Henderson, Don	4/3/2015	*
KC4WM	Taylor, Alice	12/11/2015	*
KC4IAV	Elledge, Marion	12/27/2015	*
K4GBH	Mimms, Joe	12/29/2015	*
AD4XA	Pruitt, Charles	10/6/2018	
KJ4VJ	Keck, Bert	10/23/2018	*
WW4I	Henry, Phil	1/1/2019	*
KC4UU	Henry, Jo	10/6/2019	*
WB4MLU	Banks, Homer	6/7/2020	
KI4WJO	Mimms, Jewell	7/14/2020	
AK4EK	Gresham, Jim	7/7/2020	*
W3COX	Cox, Jim	7/16/2021	*
WD4BWK	Mitchell, Franklin	9/25/2021	
KB4YON	Keck, Eldora	10/14/2021	
AJ4PU	Haynes, David	11/26/2021	*

* indicates GARS member when became SK

HAMFESTS & EVENTS

The Greenwood Amateur Radio Society (GARS) Ham fest originally scheduled for January 8, 2022 has been postponed due to COVID. It has been rescheduled for January 14, 2023

[Hamcation](#) , Orlando, Florida 11-13 February 2022,

Daytona [Hamvention](#), 20-22 May 2022



- * The American Radio Relay League protects our rights as Amateur Radio Operators <http://www.arrl.org>
- * Support for SERA supports proper coordination! <http://www.sera.org>
- * Remember your local and regional interest clubs!
- * Southeast DX Club <http://www.sedxc.org>
- * Spread the word GARS weekly nets: 147.165 2m Net Thursdays 9 p.m.
443.900 70cm Net Mondays 8 p.m.
- * Callsign info <http://www.ae7q.com>*
- * Track us on APRS: <http://aprs.fi>,
- * Swamp Fox Contest Group <http://swampfoxcontestgroup.com>



Classifieds:

None submitted.

I hope you have enjoyed reading our newsletter. Please contact me at Mike31406@gmail.com to place a classified ad or with any ideas/comments/suggestions etc.

Mike