

The Signal Report

A Publication of the Greenwood Amateur Radio Society

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OCTOBER

HTTP://WWW.W4GWD.ORG

W4GWD@ARRL.NET

2016 CLUB OFFICERS

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The W4GWD Repeater Network

147.165+ t107.2

Echolink: 584003

443.900+ t107.2

W4DEW/R

146.910- t123.0

W4GWM/R

145.420- DV

Infrastructure Update

Analog Repeaters are up.

DMR and D-Star is up.

Fusion coming soon!

Echolink is up.

APRS iGate is up.

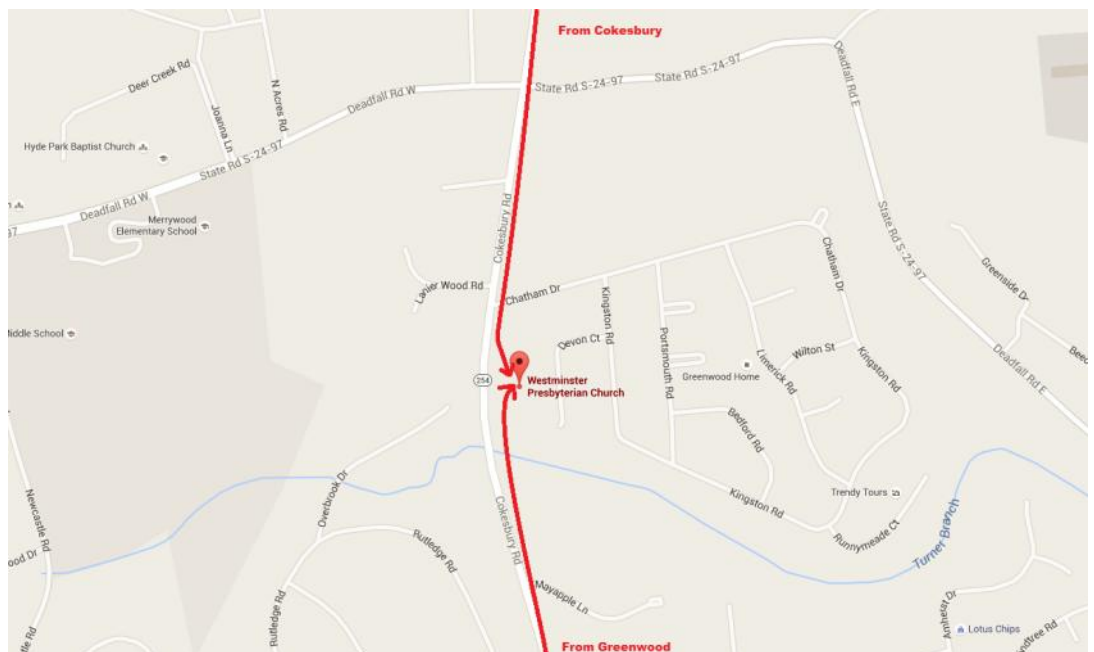
Packet Node is up connected to the Carolinas Packet System. 145.010

Downtown Digi coming soon. (equipment is sourced!)

Repeater Linking Project coming soon! (equipment is sourced!)

October Meeting

This month's club meeting will be held at the Westminster Presbyterian Church, located at 2330 Cokesbury Rd, Greenwood, SC. The new meeting date is on the 2nd Tuesday, which will be the 11th this month. Meeting starts at 7:30 Sharp.





facebook.com/
GreenwoodARS

Society Events:

Chat 'N' Chew

Every Friday at 11:30am the members of the Greenwood Amateur Radio society meet at a local restaurant. Please check on the radio to see the new location. Everyone is welcome to have lunch or sip your favorite beverage and chat for a while.
(Dutch treat).

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

Congratulations

Happy Birthday!

Jacob Long	KM4GKD	Oct 10
Raymond White	KJ4RYC	Oct 23
Elaine Dukes	KA4PLU	Oct 27
David Haynes	AJ4PU	Oct 28
Bonnie Henderson	N4GEZ	Oct 30
Jackie Floyd		Oct 31
Phil Henry	WW4I	Nov 6
John Sullivan	KJ4RYB	Nov 7
Al West	KB4RA	Nov 15
Jo Henry	KC4UU	Nov 21

Happy Anniversary!

Nathan and Kathleen Hermann	Oct 2
David and Betsy Russ	Oct 14
Emile and Angie Barrouk	Nov 20
Jim and Betty Gresham	Nov 26

If you have any ideas for books you'd like to see in the GARS Library, Contact Mitch KJ4JGP



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>

Phil's Corner:

Hamisms #4984

Dit dit dit, dah dah dah, dit dit dit

What is Fusion?

System Fusion is Yaesu's implementation of Digital Amateur Radio, utilizing C4FM 4-level FSK Technology to transmit digital voice and data over the Amateur radio bands. In the early 2000's GMSK emerged in the Amateur radio market as the dominant digital mode, however in 2013 Yaesu introduced "System Fusion" which quickly became the dominating digital format in Amateur radio because of quality, reliability and enhanced performance in a wide range of environments.

Digital Communication modes

have gained popularity over the years in the market because of superior performance in environ-

System Fusion

ments with interference, noise and other contributing factors that degrade the quality of a standard FM Analog signal. Narrower bandwidth and the need for increased spectrum have led to the development of digital communications technology, which has been widely adopted in the Public safety and private business sectors that use two-way radio technology. Unlike it's commercial counterpart, System Fusion is an Amateur Friendly Digital Operating mode, straying away from some of the design considerations that make commercial solutions less appealing and more difficult for Amateur Radio Operators, providing a simpler interface and features that meet the demands and needs of the Amateur enthusiast specifically.

The Four Operating Modes of System Fusion

V/D (Digital Narrow) – Voice+Digital or "V/D" mode

Voice FR (VW) Mode – Utilizes all available bandwidth for high-fidelity voice operation, providing the most crystal clear of voice communications.

High speed Data — Transfer data such as images or text messages at full rate with speeds up to 9600 Bits-per-second

Analog FM Mode — Maintains backwards compatibility with existing Analog FM Equipment, allowing a wide range of users to experiment with System Fusion Digital.

Capabilities such as Automatic Mode Select (AMS) On the DR-1X Repeater allow an even wider range of users to communicate, by running the repeater in "Fixed FM" mode on Transmit, and "Automatic Mode Select" on receive the repeater will automatically detect the incoming signal and convert it to an Analog FM Transmission. This mode allows digital users to communicate with existing Analog FM users without the need to switch their radios into FM Mode, allowing crystal clear Digital reception into the repeater that is converted into a conventional FM Signal.

HAMFESTS and EVENTS:

Mark your Calendars! Greenwood Amateur Radio Society Hamfest at Piedmont Technical College January 2017

10/15/2016 Anderson Hamfest Darwin Wright Park 106 Anderson Beach Blvd. Anderson, SC 29621 Website: <http://www.andersonradioclub.com> Anderson Radio Club Talk-In: 146.790
Contact: Margie Spangenberg, KK4AGN 864-654-1352 margiespang@att.net

11/5/2016 Stone Mountain Hamfest Gwinnett County Fairgrounds 2405 Sugarloaf Parkway Lawrenceville, GA 30042 <http://www.stonemountainhamfest.com> Alford Memorial Radio Club Talk-In: 146.76 tone 107.2 Contact: Gail Massara N2ART 855-786-8643 hamfest@stonemountainhamfest.com

Greenwood Amateur Radio Society Meeting Refreshments List:

2016

The list will return soon!

Let's fill those open slots!

Send an email to adam@wj4x.net to reserve your spot!

We will ask for volunteers for the refreshments list over the next few weeks, so be thinking of what month you'd like to volunteer!

Packet Cluster:

- ◆ 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! 147.165 Net Thurs. 9pm
- ◆ Callsign info <http://www.ae7q.com>
- ◆ Track us on APRS: <http://aprs.fi>



Classifieds:

2 Meter whip antenna for sale, Best Offer. Contact Stephen Lyda KI4ZSY stephenlyda@yahoo.com

If anyone has any Ham radio stuff to sell or trade... list it in this column by calling Buddy, w4dew@arrl.net, 864-445-7574

If you want to see your article or wish to advertise in The Signal Report, please send an email to the newsletter staff via newsletter@wj4x.net