



# The Signal Report

A Publication of the Greenwood Amateur Radio Society

VOLUME 13 ISSUE 5

MAY

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

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## 2017 CLUB

### OFFICERS

#### President

Fred Pinson, K4RM

#### Vice President

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Adam Shirley, WJ4X

#### Asst. Editor

Liz Meadows, W2LIZ

### 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

**WJ4X/R**

442.600+ t107.2 / DV

## Infrastructure Update

Analog Repeaters are up.

DMR and D-Star is up.

Fusion is up.

Echolink is up.

APRS iGate is up.

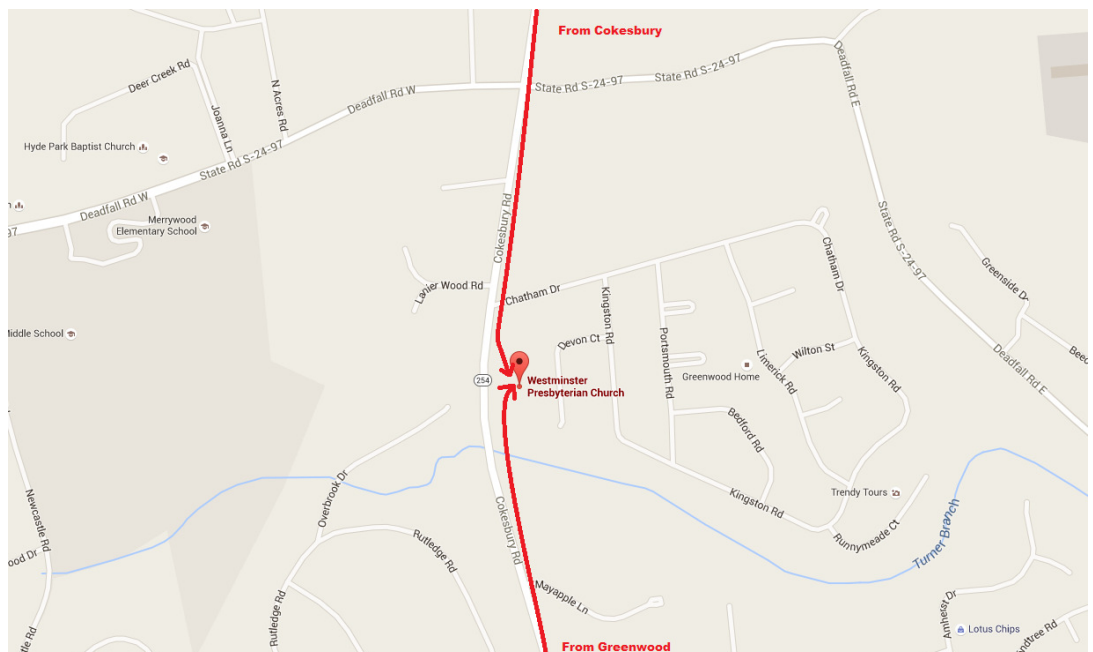
Packet Node is down connected to the Carolinas Packet System. 145.010

Downtown Digi coming soon. (equipment is sourced!)

Repeater Linking Project coming soon! (antenna is hung!)

## May 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 9th this month. Meeting starts at 7:30 Sharp.



## Society Events:



Like us on  
Facebook

facebook.com/  
GreenwoodARS

If you have any ideas for books you'd  
like to see in the GARS Library,  
Contact Mitch K14JGP

### Chat 'N' Chew

Every Friday at 11:30am the members of the Greenwood Amateur Radio society meet at a local restaurant. Please check in on radio to hear 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

### VE Exam Session

The GARS ARRL Volunteer Examiners (VE) Team will have an exam session 7:00pm Tuesday, June 4th at the Westminster Presbyterian Church. The address is 2330 Cokesbury Rd Greenwood SC 29649-9515 We hope to see you there. Please contact Buddy Willis W4DEW [w4dew@arrl.net](mailto:w4dew@arrl.net)

## Congratulations

### Happy Birthday!

Theaster Ward-Willis	May 10
Teddy Johnson AE4TJ	May 17
Richard Donald N4LRD	May 21
Elizabeth Meadows W2LIZ	May 26
Kevan Nason N4XL	June 6
David Russ K4DWR	June 9
Richard Bowie KK4BMK	June 10
Jim Cox W3COX	June 14
Adam Shirley WJ4X	June 15
Angie Barrouk KG4VLN	June 17
George Crane W4RFX	June 20
Di Litwer N4DLL	June 24

### Happy Anniversary!

Cindy and John Penman	
May 9	
David and Margaret Haynes	
May 14	
Dan and Christy Curry	
May 20	
Arthur and Cathy Gillespie	
May 26	
Earl and Betty Jean Powell	
June 5	
Tedd and Gail Davison	
June 15	
Dustin and Laura Mosley	
June 20	

Phil's Corner:

Hamisms #842

Avoid working with High Voltage whenever possible.

## APCO P25

Unlike D-STAR, which is a digital standard devised by and for Amateur Radio, APCO-25 was developed specifically for local, state and federal public safety communications. "APCO" is the Association of Public-Safety Communications Officials, originally an association of police communication technicians, but now a private organization. APCO has a technical standards group responsible for planning the future needs of police (and more recently public-safety) users. It was through this group that a standard for advanced narrow-band digital communications (voice or data) was developed. This standard is known as APCO Project 25, APCO-25, or simply P25. The overall purpose of the APCO-25 standard is to make it possible for governments to shift from analog to digital communications with the least difficulty possible. This means placing a great deal of emphasis on backward compatibility (P25 radios include analog operation and newer P25 technology doesn't render older technology instantly obsolete) and interoperability (the ability for all P25 radios to communicate with each other). In the public safety world, interoperability is a key selling point. The chaotic communications experience in New York City during the September 11, 2001 terrorist attack and in 2005 during Hurricane Katrina demonstrated the critical importance of interoperability. During both disasters there were numerous instances where radio communication between various groups was impossible because each group was using mutually incompatible equipment. APCO-25 is comprised of a "Suite of Standards" that specifies eight open interfaces between the various components of a land mobile radio system.

- Common Air Interface (CAI) standard specifies the type and content of signals transmitted by compliant radios. One radio using CAI should be able to communicate with any other CAI radio, regardless of manufacturer.
- Subscriber Data Peripheral Interface standard specifies the port through which mobiles and portables can connect to laptops or data networks
- Fixed Station Interface standard specifies a set of mandatory messages supporting digital voice, data, encryption and telephone interconnect necessary for communication between a Fixed Station and P25 RF Subsystem
- Console Subsystem Interface standard specifies the basic messaging to interface a console subsystem to a P25 RF Subsystem
- Network Management Interface standard specifies a single network management scheme which will allow all network elements of the RF subsystem to be managed
- Data Network Interface standard specifies the RF Subsystem's connections to computers, data networks, or external data sources
- Telephone Interconnect Interface standard specifies the interface to Public Switched Telephone Network (PSTN) supporting both analog and ISDN telephone interfaces.
- Inter RF Subsystem Interface (ISSI) standard specifies the interface between RF subsystems which will allow them to be connected into wide area networks.

Amateur Radio APCO-25 enthusiasts today are treading the same path taken by analog FM pioneers more than 30 years ago. They are modifying commercial APCO-25 equipment for Amateur Radio and setting up APCO-25 repeater systems. Thanks to online sites, it is becoming easier to track down surplus APCO-25 transceivers. Good luck on your search!

# HAMFESTS and EVENTS:

Mark your Calendars! Greenwood Amateur Radio Society Hamfest at Piedmont Technical College January 2018

Blue Ridge ARS's 58th Annual Hamfest  
HAMFEST/CONVENTION  
05/06/2017  
Start Date: 05/06/2017  
End Date: 05/06/2017  
Location: Piedmont Interstate Fairgrounds  
575 Fairgrounds Road  
Spartanburg, SC 29301  
Website: <https://www.blueridgears.org/brars/>  
Sponsor: Blue Ridge Amateur Radio Society  
Type: ARRL Hamfest  
Talk-In: 146.610 (No PL Tone)  
Public Contact: Robert Webster , WR8RW  
3 Beaver Brook Court Taylors, SC 29687  
Phone: 864-663-9792  
Email: [wr8rw@mail.com](mailto:wr8rw@mail.com)

Georgia Section Convention (Atlanta Ham-festival)  
HAMFEST/CONVENTION  
6/03/2017  
Start Date: 06/03/2017  
End Date: 06/03/2017  
Location: Jim Miller Park  
2245 Callaway Road  
Marietta, GA 30006  
Website: <http://atlantahamfest.com>  
Sponsor: Atlanta Radio Club (W4DOC) & Kennehoochee Amateur Radio Club (W4BTI)  
Talk-In: 146.820(-) PL 146.2  
Public Contact: John Talipsky , N3ACK  
385 Madison Chase Drive Lawrenceville, GA 30045  
Phone: 470-272-8940  
Email: [johntalipsky@gmail.com](mailto:johntalipsky@gmail.com)

## 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](mailto:stephenlyda@yahoo.com)

TS-570DB Hf Transceiver – Mint condition Astron SS30 Power Supply – Mint condition Kenwood Speaker – Mint condition Reduced to \$650 David McCall W4MCC 943-0181

Get into DMR quick and easy! Connect Systems 750, \$200 w/ software and cable [adam@wj4x.net](mailto:adam@wj4x.net)



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

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