



Ham Radio
In the 21st Century

W4RSC "RADIO SILVER COMET"

ARRL AFFILIATED CLUB



SILVERCOMET SKYWAVE

Silver Comet ARS, INC NEWS

PO BOX 1873 Hiram Ga. 30141 501 (C) (3) Not for Profit

Jan/Feb 2016 Number 2 Vol 1



Greetings : President SEZ

Greetings again,

I hope that everyone has had a great holiday season, but now it is time to look forward to a new year of fun with your fellow amateurs. I would like to thank everyone for making 2015 a great year for SCARS and supporting me in my 1st year as club president. I thank everyone for their support and for helping the club grow. I was delighted to see all the new amateurs and new members and that have joined us and I am especially proud of our members that have upgraded their licenses. Going forward into 2016, I plan to continue our interesting and educational programs to help expand or renew your interest in the various aspects of amateur radio. Some ideas that come to mind are TTY (teletype), Ham Radio History, Logging programs, test equipment demos, and much more. If you have any suggestions, please forward them to me so I can include them in our calendar of events. Thank you for letting me serve you in 2015 and now again in 2016 (I must have missed a meeting and got elected again).

73's Chuck, K4CGA

In This Issue

- President SEZ Start 2016
- 2016 Calendar Updated
- Antenna Tuners
- Pictures from 2015
- Great Internet links



American Radio Relay League
The National Association For Amateur Radio
AFFILIATED CLUB

	January	February	March	April	May	June	July	August	September	October	November	December
Meeting 1st Tuesday Date/Time:	01-05-2016 7pm	02-03-2016 7pm	03-01-2016 7pm	04-05-2016 7pm	05-03-2016 7pm	06-07-2016 7pm	07-05-25016 7pm	08-02-2016 7pm	09-06-2016 7pm	10-04-2016 7pm	11-01-2016 7pm	12-06-2016 7pm
Meeting Location	Paulding Chamber of Commerce Bldg	Paulding Chamber of Commerce Bldg	Paulding Chamber of Commerce Bldg	Paulding Chamber of Commerce Bldg	O'Charley's or TBA	Paulding Chamber of Commerce Bldg	Paulding Chamber of Commerce Bldg	Paulding Chamber of Commerce Bldg	Paulding Chamber of Commerce Bldg	Paulding Chamber of Commerce Bldg	Location Suggestion Needed	Paulding Chamber of Commerce Bldg
Meeting Activity	Show & Tell Night	Antenna Tuners Why & What Kind K4CGA/K4ELI	Intro to the ARRL	Severe Weather Presentation by K4DMF	Family Night Dinner & Rag Chew	Field Day Primer & Planning (Volunteer Planner Needed)	Intro to Computer Logging & Other Useful Programs	Everything You Need To Know About Voltmeters	2nd Annual AM Radio DX Contest	Intro to Coax Cables ***** Club Officers Nominations	Your Suggestion Here ***** Club Officers Voting	Holiday Dinner ***** Election Results
Additional Activities		TBD	TBD	GA QSO Party	Picketts Mill Celebration May 27th NPOTA (TBD)	Field Day GOTA	TBD	Silver Comet Trail On The Air (TBD)	Club Fall Picnic (Location TBD)	Jamboree On The Air (TBD)	TBD	TBD
Hamfest Schedule		Dalton February 27th	Birmingham, AL March 4th ***** Elijay March 19th	Mobile, AL March 9th ***** Calhoun April 23rd	Dayton, OH May 20-22	Atlanta June 4th		Huntsville, AL August 20-21			Lawrenceville November 5th ***** Montgomery, AL November 19th	
Subject to change.												v1.8.16

W4RSC "RADIO SILVER COMET" Serving Paulding County and West Metro Atlanta
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Getting Ready for Tuesdays Meeting on ANTENNA TUNERS

How Do I Use an Antenna Tuner? From ARRL

I'm a little confused about how antenna tuners function in terms of reducing antenna system SWR. Is it true that an antenna tuner does not really 'tune' the antenna? And if an antenna is cut to resonance already, what good is a tuner?

Yes, it's true—an antenna tuner doesn't really tune your antenna in the strict sense of the word. It does not, for example, adjust the lengths of your antenna elements, their heights above ground and so on. What an antenna tuner or transmatch does do, however, is transform the impedance at the feed line input to a value that your transceiver can handle (typically 50 Ohm—see Figure 1). When thinking about antenna tuners and SWR, it's important to remember that the tuner has no effect whatsoever on the SWR between itself and the antenna. It's the SWR between the tuner and the transceiver that changes.

In practical terms, all a tuner does is act as a kind of adjustable impedance transformer between the antenna system and the radio. It takes whatever impedance the antenna system presents and attempts to convert it to 50 Ohm—or something reasonably close to that value—for the transceiver. When the transceiver "sees" a 50 Ohm impedance, it is able to load its maximum RF output into the system. That power is transferred through the antenna tuner, to the feed line and, ultimately, to the antenna—minus any losses incurred along the way.

These losses are the reason that the highest efficiency feed-line for each individual case is desirable and why some amateurs use ladder line.

What is the correct way to tune an antenna tuner?

Most antenna tuners have an inductance rotary switch and two capacitors. The capacitors are often labeled ANTENNA and TRANSMITTER. In some antenna tuners the inductance switch is replaced with a continuously variable inductance, popularly known as a roller inductor. Let's assume you're using a tuner with an inductance switch, because they are the most common. Place both capacitor controls at their mid-range positions. Don't trust the knob markers if this is your first experience with the tuner; remove the cover and turn the knobs until the moving capacitor plates are only half meshed with the stationary plates. If the knobs are pointing to half scale, consider yourself lucky. If not, loosen the Allen nuts and rotate the knobs so that they point to mid scale. Replace the tuner cover and you're ready to go.

Turn the radio on and, with the ANTENNA and TRANSMITTER controls at mid scale, crank the inductance switch until you hear the loudest noise or signals coming into your radio. Then, rotate the ANTENNA and TRANSMITTER controls until you get to the absolutely loudest noise or signal level on the radio. This should be close to your best tuning spot.

With your rig set to low power, send an ID then transmit a continuous carrier while you tweak the ANTENNA and TRANSMITTER controls for the lowest reflected power reading with the highest output power as read on the SWR meter. You may find that you have to vary the position of the inductance switch a position or two to get your best match. Be gentle to your radio; keep the key-down periods as short as possible.

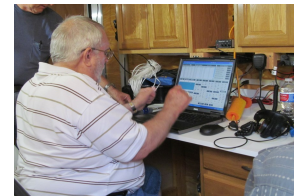
Depending on the impedance at the antenna input (and the overall design of the tuner) you may not be able to obtain a flat 1:1 SWR on all frequencies and bands.



2015 Photo Highlights



TOWER PROJECT K4BBH ON BRASWELL MOUNTAIN HURRAY !!!!!!!!!!!!!



Field Day 2015 GOTA

And all the EATS !!!



First Annual AM BROADCAST DX Contest Logging

Congratulations to John W4TXA - Winner



Breakfast every Thursday or Christmas Party or Dinner Meeting SilverComet ARS Folks LOVE TO EAT !!

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Keeping the Repeaters Rocking is a BIG JOB for the Repeater Team

Some Links of INTEREST

www.rfconcepts.com/ Alpha Power Amps

www.ameritron.com Ameritron Amps

www.artscipub.com/ Artsci Publications Repeater Listings

www.sera.org/ SouthEastern Repeater Assoc.

www.astroncorp.com/ Astron Power Supplies

www.bencher.com/ Bencher CW Paddles and Butternut Ant.

www.bird-electronic.com/ Bird Technologies Watt Meters

www.davisnet.com/ Davis Instruments Weather Stations

www.peetbros.com/ Peet Brothers Weather Stations

www.downeastmicrowave.com/ Down East Microwave VHF/UHF Beams

www.elecraft.com/ Elecraft American Made HF Equipment

www.tentec.com/ Ten-Tec American Made HF Equipment

www.heilsound.com/ Heil Sound Superior Quality Microphones and Headphones

www.westmountainradio.com/ West Mountain Radio (RIGblaster)

www.tigertronics.com/ SignalLink



WB4QOJ Repeater System

"Serving WEST METRO ATLANTA"
from Dallas, Hiram and Rockmart
ECHO-LINK Enabled Node # 3026

The WB4QOJ Repeater Systems are located in Paulding County Georgia, Paulding County home to Dallas and Hiram VERY HISTORIC AREA from the 1860's.

.about
WB4QOJ Repeaters are OPEN repeaters that serve the Western Part of Metro Atlanta. 146.965 (-) 77hz tone is located in Dallas, Ga. The 443.475 (+) 77hz tone is located in Rockmart, Ga. WX4PCA Packet Node 145.630 WB4QOJ-7

.services
We encourage SoundCard Digital transmissions through our Repeaters. We like FIDigi and any NBEMS modes that help with training in emergencies. PSK and MFSK are the best for message transfer.

.sites I like
FLDigi www.w1flk.com
Advanced Repeater Systems
ECHO LINK USB Interface
<http://www.repeater.com>
AirLink Express
<http://www.airlinkexpress.org/>
ARRL Georgia
<http://www.arrl-ga.org/>

.repeaters
WB4QOJ VHF and UHF WX4PCA Repeater System
The NEW GE MASTER III on line 01/29/2006 146.955 (-) 77hz tone Dallas, Ga. WB4QOJ/R
GE MASTER II on line 12/06/2003 443.475 (+) 77hz tone Rockmart, Ga. WX4PCA/R
BPQ32 PACKET 145.63 WB4QOJ-7 NODE / BPQMAIL
WB4QOJ-1 / WWW-GIAT WB4QOJ-2 / RMS
WX4PCA-10

Using Packet Radio on VHF and HF can be a great way to link locally or across the country. I have been involved with "NetWork 105" on HF since the 1988. With cross-connect from HF to VHF and also from VHF to HF you can not only have keyboard operations, BUT also pass traffic and information. Please join our Yahoo Group "NetWork 105", 14.105 mhz LSB and 145.63 mhz Dallas, Georgia.

WB4QOJ PACKET Network105 145.63 mhz.

WB4QOJ.webstarts.com © 2011-2016 Last updated 01/01/2016 Email: ga4digital@yahoo.com
my blog <http://ga-digital.blogspot.com/>



Silver Comet ARS

HOME ABOUT CONTACT NEWS

Today, Monday February 01, 2016

WELCOME - QRZ

Welcome ham radio enthusiast to the Silver Comet Amateur Radio Society website.

The information you find here is for SCARS and YOU, and of course the random Internet trolls and bots.

Here you will find some tips, tools, and how to's.

You might even learn a thing or two.

Those who can't do, teach. Those who can't teach, homebrew.

We are all looking for that some thing to resolve something.

Whatever it takes, we hope we helped you get there.

73 and 33

Goodwill towards men is the essence of amateur radio - D.W.Nurse, WBSCD

CATEGORIES

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W4RSC

Paulding County, GA - EM73 - ITU Zone: 8

Silver Comet Amateur Radio Society, Inc.

PO Box 1873

Hiram, GA 30141

www.silvercometars.com



Contact Us

Yahoo Groups Request

[SilverComet ARS](#)

Silver Comet ARS Inc.

PO BOX 1873

Hiram, Ga. 30141

Visit us on the web at

www.silvercometars.org
under construction



STATION	Confirming QSO							Pse QSL <input type="checkbox"/> Tnx QSL <input type="checkbox"/>	
	DAY	MONTH	YEAR	UTC	MHz	RST	MODE		

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PO BOX 1873
HIRAM, GEORGIA 30141

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