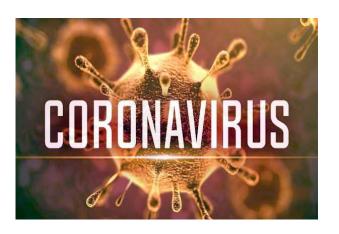


#### May 5<sup>th</sup> CLUB MEETING IS CANCELLED!



Out of abundance of caution, and in the interest of protecting the well-being of our members, the leaders of the Silver Comet ARS have cancelled the physical meeting at the Chamber building. Check your Groups.IO emails for information on a Virtual online or radio check-in meeting.

#### In This Issue

- The Usual Stuff
- Mark Your Calendar
- Are You Ready?
- New Amateur
- Useful Antenna Info
- What's That Stuff
- Wires Into Trees
- Need Antenna Wire?
- Loop Performance
- SDR Panadapter
- Extra! Extra!
- Solar Cycle Progression
- Interesting Links
- Weekly Breakfast Info
- Just For Fun
- The meaning of "SOS"
- SCARS Website Update
- GA QSOP Results
- Contest Stuff
- VE Schedules
- Activity Calendar

WARSC " Patio Silver Comet " The Silver Comet ARS Inc. a 501 (c) (3) Not for Profit Organization





### <u>Editor's Notes:</u>

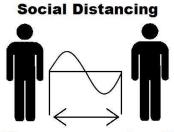


Copies of past SKYWAVE newsletters can be found at the club website <u>http://www.silvercometars.com/newsletter.php</u>. Please submit your member bios and articles prior to the  $25^{th}$  of the month.

Chuck K4CGA, Editor

#### <u>Monday – "SCARS Night Out" Net!</u>

Check-in begins at 7:30PM. It's fun and informative. On the 1<sup>st</sup> Monday of each month, a new technical subject will be introduced for discussion. Suggestions for Topics of discussion are always solicited. You don't have to dress up, it's very informal.



Keep one wavelength apart at 146.52 MHz

#### **SCARS Community Food Drive!**



COVID-19 has resulted in an unusually high demand for products from our local food bank, Paulding County Helping Hands. In these trying times, if you can afford to do so, please bring an non-perishable item or two to our monthly meetings.

Your donations are greatly appreciated by the recipients and you will feel better. PLEASE HELP ! It all adds up.

### <u>Mark your Calendar!</u>



#### **Check For Event Cancellations Due To COVID-19**

For more Hamfest schedules: http://www.mcminnarc.com/festcalendar.html http://www.arrl.org/hamfests.html http://www.cq-amateur-radio.com/cq\_hamfest\_events.html

# <u>Coming Soon! (we hope)</u>



*ARRL 2020 Field Day* is always held on the 4th full weekend in June. June 27-28, 2020. Field Day is the most popular on-the-air event held annually in the US and Canada.

**Field Day is ham radio's open house.** Every June, more than 40,000 hams throughout North America set up temporary transmitting stations in public places to

demonstrate ham radio's science, skill and service to our communities and our nation. It combines public service, emergency preparedness, community outreach, and technical skills all in a single event. Field Day has been an annual event since 1933, and remains the most popular event in ham radio.

Field Day is not a contest:

- ➢ no logs are required
- dupe sheets must be submitted
- no certificates are awarded
- ➢ full results appear in December QST



Bands: 160, 80, 40, 20, 15 and 10 Meter HF bands, as well as all bands 50 MHz and above using all modes including digital.

What can you do? Remember to reserve the last full weekend in June for Field Day. FD 2020 is still on schedule provided the COVID-19 restrictions are lifted. Should this crisis continue to affect our ability to hold gatherings, optional operating instructions will be posted by ARRL and our leadership.

Tommy, K4VTE is this year's FD committee chairman and is looking for volunteers and operators. Please contact Tommy to volunteer and assist him with planning, advertising, setup, teardown, equipment, antennas, cables, lights, food, drinks, or anything else that may be necessary to carry out another successful SCARS FD event.



### <u>Are You Ready?</u>



Severe weather can happen anytime and any place just as it did in our area on April 12<sup>th</sup>. It can include hazardous conditions produced by thunderstorms, including damaging winds, tornadoes, large hail, flooding and flash flooding, and winter storms associated with freezing rain, sleet, snow and strong winds.

Do you know what to do? Here are some suggestions from: <u>https://www.ready.gov/severe-weather</u>

#### **Know your Risk**

Understand the type of hazardous weather that affects you and your family where you live:

- <u>Tornadoes</u>
- <u>Floods</u>
- <u>Thunderstorms & Lightning</u>





#### **Take Action**

Develop an emergency plan based on your local weather hazards and practice your plan.

- <u>Make a family emergency plan</u>
- <u>Be informed about emergency alerts</u>

### <u>Welcome To Amateur Radio!</u>

Meet Robert W. Oliver II, KO4DDO, who recently passed both his Technician and General Class exams in one sitting. If you hear him on the air, please extend a hearty welcome from the Silvercomet ARS to him. <u>You can get some bio stuff here</u>. KO4DDO is the oldest son of club member Robert, KN4RTJ.

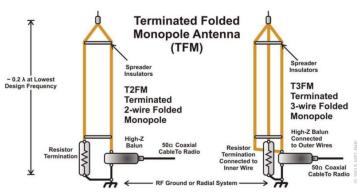


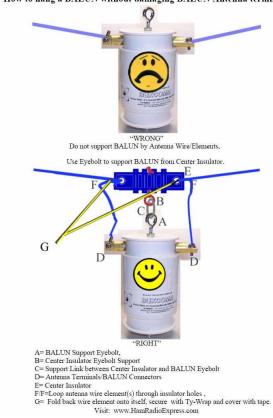
This quarantine made me realize l have no real hobbies besides going out to eat and spending money.

#### **Useful Antenna Information**

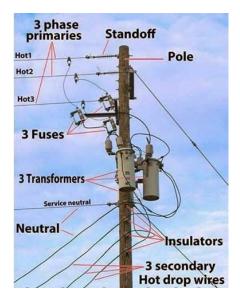
# Terminated Folded Monopole Antenna TFM T2FM T3FM

The Terminated Folded Monopole (TFM) is a derivation of the TFD, and it is usually implemented as a vertical antenna over an RF ground plane or a radial system. Like the TFD, the TFM can be designed as a multi-wire or cage antenna. T2FM, T3FM, T4FM, T5FM, etc. The TFM has the same broadband qualities as the TFD, but offers a lower footprint configuration and more omnidirectional pattern for different applications.





# What's All That Stuff On The Pole?



How to hang a BALUN without damaging BALUN Antenna terminals.

### <u>Getting Antenna Wires Into Trees</u>

The April issue of Skywave provided an example of how to build an Air Cannon to get antenna wires into trees or over other objects. Here are some novel items to accomplish the same thing.



HyperPet Mini-Ball Launcher





Bazooka K-9 Tennis Ball Launcher

K-9 Kannon Mini-Ball Launcher

Attach a Zebco 202 fishing reel, attach the line to the ball and let it fly! Average distance is 50 to 75+ feet. Enough distance to safely get the line into a tree without breaking anything. Cost? Less than \$20 at most pet supply stores or on-line.

#### <u>Need Antenna Wire?</u>

Wire Type: Copper weld Size: #14 Description: Steel with a layer of copper bonded to the surface of the steel wire.

Advantages:

- ✓ Much stronger than bare copper
- ✓ Much lighter than bare copper
- ✓ Conductivity comparable to bare copper especially for RF applications (skin effect).
- ✓ Can be used for wire antennas that act as guy wires simultaneously!

Dave Walk K4BBH is offering this wire at an incredible price of only 10¢/Foot. This is almost half of what you would pay for #18 gauge equivalent! Interested? Contact Dave on the 146.955 repeater or at <u>dtwalk@mail.com</u>

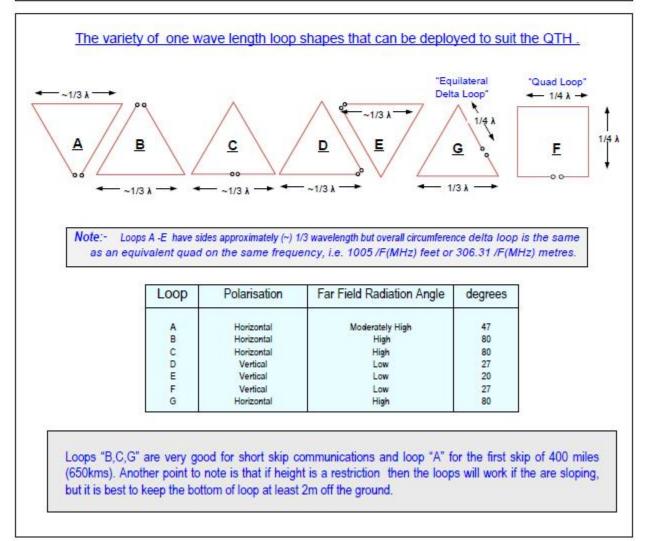
### Full Wave Loop Performance – GU3WHN

#### Full Wave Loops Peformance

The larger dimensions of the loop compared to the half-wave dipole increases the radiation efficiency.

The feedpoint impedance of a full-wave loop in free space is approximately 100-120  $\Omega$  with a gain over a dipole of 1.35 dB. However when installed close to ground the feedpoint impedance can vary from 50-240  $\Omega$  depending on configuration, orientation, and choice of feedpoint. Hence in practice some type of feedpoint matching system is required.

The loop can be arranged as square( quad) or diamond, equilateral triangle with apex up or down, feedpoint on the bottom, side and corner. Each variation changes the characteristics slightly regarding the impedance, gain, polarization, pattern, and from the DX point of view the take-off angles. The horizontal radiation pattern looks like a "figure-8" and is perpendicular to the plane of the loop.



For full information: <u>https://rsars.files.wordpress.com/2013/01/40m-10m-delta-loop-antenna-gu3whn-iss-1-3.pdf</u>

### **SDR Panadapter for the IC-7100!**



Want to see if there are any openings on the band without scanning around. Just look at your Panadapter. Oh, you don't have one! Here are some instructions on how to modify your IC-7100 to add a SDR Panadapter to your rig. They are really useful.

https://g6gei.site123.me/my-projects/panadapter-to-ic-7100

#### <u>Extra! Extra!</u>

Have you checked your bank account for your US Treasury Stimulus Check? Now is a good time to upgrade your radio, buy a new antenna or replace that old coax cable. Help stimulate the economy and help keep our ham radio vendors in business. Many vendors are having great sales right now. Check them out.



#### ISES Solar Cycle Sunspot Number Progression ISES Solar Cycle F10.7cm Radio Flux Progression Zoom: Default All Numbering On/Off Zoom: Default All Numbering On/Off F10.7 Flux (solar flux units) 150 150 Sunspot Numbe 100 100 50 25 50 0 2010 2015 2025 2030 2020 2010 2015 2020 2025 2030 Universal Time Universal Time 2020 2040 Mun M. 1900 Smoothed Monthly Values Predicted Flux Values Monthly Values Monthly Values **Predicted Values** Smoothed Monthly Values Space Weather Prediction Center Space Weather Prediction Cente

### Solar Cycle Progression

For more information: <u>https://www.swpc.noaa.gov/products/solar-cycle-progression</u>

#### Interesting Links to visit!

9 Songs With Hidden Morse Code https://www.ultimateguitar.com/news/community feed/9 songs that have hidden morse code.html

*New Ubuntu Release* <u>https://www.omgubuntu.co.uk/2019/10/ubuntu-20-04-release-features</u>

*Outpost v3.3 c081 available* <u>https://www.outpostpm.org/</u>.

Dayton Hamvention QSO Party https://wwrof.org/hamvention-qso-party/

fldigi 4.1.11.14 posted http://www.w1hkj.com/alpha/fldigi/

[Icom7100] new CT-17 CI-V hub design https://www.youtube.com/watch?v=s9VK6s632n0

IC-7300 Clock Battery Replacement http://radioaficion.com/news/ic-7300-clock-battery-replacement/

ARRL Clubs - SILVER COMET AMATEUR RADIO SOCIETY, INC. http://www.arrl.org/Groups/view/silver-comet-amateur-radio-society-inc

Silver Comet ARS YouTube Channel https://www.youtube.com/channel/UCaL7UG0gkRJxV7lnTj\_P3IQ/videos

Silver Comet ARS Website http://www.silvercometars.com/index.php

Silver Comet ARS – ARRL Clubs http://www.arrl.org/Groups/view/silver-comet-amateur-radio-society-inc/type:club

Silvercometars@groups.io/HOME https://groups.io/g/silvercometars

#### <u>Breakfast @.....</u>

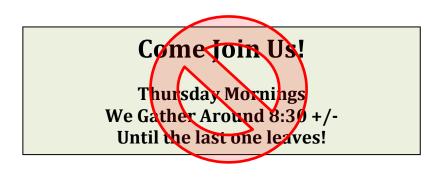
#### <u>Cancelled until further notice due to Covid-19 safety concerns!</u> Join us on the 146.955 repeater on Thursdays @ 8:30am.

Have you joined us for casual conversation, informal Q&A, problem solving and occasional humiliation?

We meet at the McDonalds *M* in Hiram (in front of WalMart).

It has a variety of food, is reasonably quick, has decent prices, and is convenient to the majority of the club members.

Members of other clubs, visitors, spouses and friends are welcomed.





# Do You Know...?

Who "*James..the healer*" is? How did he earn that title? Hmmm. Guess you will just have to ask around or wait until June's Skywave issue to get the fascinating story.

1. Why do they put bells on Cows? *Because their horns don't work*!

2. This is the story of four people named <u>Everybody</u>, <u>Somebody</u>, <u>Anybody</u> and <u>Nobody</u>. There was important job to be done and <u>Everybody</u> was asked to do it. <u>Anybody</u> could have done it, but <u>Nobody</u> did it. <u>Somebody</u> got angry about that, because it was <u>Everybody's</u> job. <u>Everybody</u> thought <u>Anybody</u> could do it, but <u>Nobody</u> realized that <u>Everybody</u> wouldn't do it. Consequently, it wound up that <u>Nobody</u> told <u>Anybody</u>, so <u>Everybody</u> blamed <u>Somebody</u>.

#### <u>Just For Fun!</u>



Can you name all the McD characters in this picture? Answer in next month's issue!







Know your hurricane categories, be safe!

# What does SOS really mean?

In 1904, the Marconi Company suggested the use of "**CQD**" for a distress signal from ships at sea. Although generally accepted to mean, "*Come Quick Danger*", that is not the case. It is a *general call*, "**CQ**," followed by "**D**," meaning distress. A strict interpretation would be "*All stations, Distress*".

Several years later, the signal "**SOS**" was chosen and adopted because its unmistakable Morse code sequence (...--...) was easy to remember and recognize even through interference indicating a distress or emergency situation.

Stations receiving this "**SOS**" distress call were (and still are) required by international agreements to immediately cease transmitting and handling traffic until the emergency was over. They were also bound by those agreements to answer the distress signal.

Contrary to popular belief, "SOS" was not chosen for its interpretation of "Save Our Ship" or "Save Our Souls".

The use of "SOS" is not limited to ships at sea. It has been used by hikers, climbers, and others requesting aid. "SOS" can be transmitted by long and short bursts of light or sounds, such as mirrors, flashlights horns or whistles or many other visible or audible methods.

The international voice or radiotelephony equivalent to "SOS is "Mayday" and is primarily used by aviator and mariners.

https://en.wikipedia.org/wiki/SOS (disambiguation) https://www.boatsafe.com/meaning-sos/ https://www.onallbands.com/the-meaning-and-history-of-sos/



Lee, WB4QOJ sending an "SOS" from his mobile radio after running out of gas!

### **Recent SCARS Website Updates:**



○ No Updates

Send SCARS website corrections, comments, or suggestions to K4LDC (Larry) at K4LDC@arrl.net

### **GA QSO Party Contest Club Results**

Silver Co Total Sco				Rep	ort GA	QSO Party
Current state	us: 04/13	00:55 L	тс			
Call	Score	QSOs	20 Min 6	60 Min	Frequency	
K4BBH	21,600	400	0	0		
K4SHW	16,368	372	9	12	7.23100	
K4ELI	9,036	251	69	30		
KM4VTE	8,246	217	0	0		
K4CGA	4,658	137	0	0	0.000000	
WB3ILX	242	22	15	7	3.74729	
KM4IKO	135	45	0	0		
K4LDC	5	5	9	5	28.46000	▶
KN4CQJ	4	2	0	1	7.17490	



# **Upcoming Special Events**

Please look for K4ELI's weekly email notices regarding contest and special events on the SCARS Group.io reflector or visit the ARRL website at:

http://www.arrl.org/special\_events/search/page:2/Date.start:2016-09-14/Date.end:2016-12-31/model:Event

### **Contest & Special Events**

2020 ARRL Co	ntest Dates
January 20201Straight Key Night4Kids Day4-5RTTY Roundup18-20January VHF	<b>February 2020</b> 10-14 <u>School Club Roundup</u> 15-16 <u>International DX – CW</u>
March 2020 7-8 <u>International DX– Phone</u>	April 2020 19 <u>Rookie Roundup – Phone</u>
June 2020 13-15 June VHF 20 <u>Kids Day</u> 27-28 Field Day	July 2020 11-12 <u>IARU HF World Championship</u>
August 20201-2222 MHz and Up Distance Contest15-1610 GHz & Up - Round 116Rookie Roundup - RTTY	September 2020   12-14 September VHF_   19-20 10 GHz & Up - Round 2   12-13 EME - 2.3 GHz & Up
October 2020   19-23 School Club Roundup   10-11 EME - 50 to 1296 MHz   -	November 2020   7-9 Nov. Sweepstakes – CW   21-23 Nov. Sweepstakes – Phone   28-29 EME - 50 to 1296 MHz
December 2020 4-6 <u>160 Meter</u> 12-13 <u>10 Meter</u> 20 <u>Rookie Roundup-CW</u>	Check your emails for additional contest and special event activities

#### Additional Contest Calendars

http://www.contestcalendar.com//index.html

http://www.cq-amateur-radio.com/cq contests/cq annual contest calendar/cq annual contest calendar.html http://ncjwecom/

### SCARS V.E. ACTIVITIES

#### SCARS/BHBC Test Session (aka East)

K4ELI and the VE Team will be testing at 7pm at Burnt Hickory Baptist Church, 5145 Due West Road, Powder Springs, on the following dates:

#### 2020 Schedule

**Due to Covid-19 concerns and restrictions, the May 7th session is** *Cancelled*. Jun 4(?) Jul 9 Aug 6 Sep 3 Oct 1 Nov 5 Dec 3

> *Please check the ARRL website for changes or corrections.* For more information, contact Steve Walls, K4ELI: <u>swalls46@att.net</u>

#### All classes of license exams will be available.

SCARS/Paulding CoC Test Session (aka West)

W4TXA and the VE Team will be testing at 6:30pm at the Paulding County Chamber of Commerce, 455 Jimmy Campbell Pkwy (Hwy 278), Dallas, on the following dates:

#### 2020 Schedule

**Due to Covid-19 concerns and restrictions, the May 12<sup>th</sup> session is** *Cancelled***.** Contact John W4TXA or visit ARRL website for special session info.

Jun 09 (?) Jul 14 Aug 11 Sep 08 Oct 13 Nov 10 Dec 08 For more information, contact John Reynolds, W4TXA: <u>w4txa.john@gmail.com</u>

#### All classes of license exams will be available.

#### **BRING:**

- Original and copy of existing license.
- Copy of FRN # if you have a GMRS license or some other license.
- \$15 cash----exact change
- Photo ID

#### See the following web sites for more details:

SCARS <u>http://www.silvercometars.com/about.php#TEST\_SESSION</u>

ARRL <u>http://www.arrl.org/licensing-education-training</u>

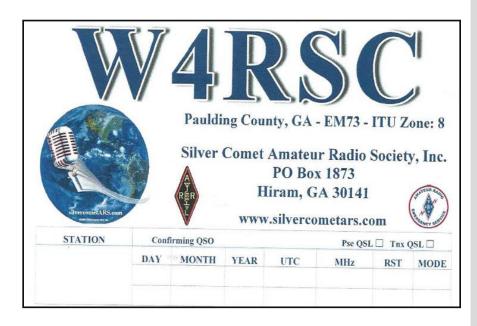


Amateur Radio

License

	Silver (	Comet A	lmateur	Radio	Society	
		20	20 Calend	ar		
	** Don't forget	our club breakf	ast every Thurso	day morning aro	und 8:30am **	
	January	February	March	April	May	June
Meeting 1st Tuesday Date/Time:	01-07-2020 7pm	02-04-2020 7pm	03-03-2020 7pm	04-07-2020 7pm	05-05-2020 7pm	06-02-2020 7pm
Meeting Location	Paulding Chamber of Commerce Bldg	Paulding Chamber of Commerce Bldg	Paulding Chamber of Commerce Bldg	"On The Air" 146.955– 77Hz Roll Call	"On The Air" 146.955– 77Hz Roll Call	Paulding Chamber of Commerce Bldg
Meeting Activity	Ham Radio Estate Planning (Steve K4ELI)	Ham Tower Engineering (Corey – KN4ULL)	6m Operation & Antennas (Mike – K4PI)	Weather (Postponed)	Spark Gap Transmitter (Postponed)	Field Day Prep Field Day Team
Additional Activities	ТВА	ТВА	ТВА	GA QSOP	Family Night Dinner	Field Day
Hamfest & Conventions	Lawrenceville TechFest	Dalton, GA Orlando, FL (HamCation)	Birmingham, AL Ellijay, GA	Mobile, AL Calhoun, GA	Dayton, OH	Atlanta, GA
	This colorday		ange". Submit c			
			V2020.05			
	Silver (		v2020.05	<sup>r</sup> Radio		
		20	v2020.05 <i>mateur</i> 20 Calend	<i>Radio</i> ar	Society	
	** Don't forget	20 our club breakf	v2020.05 <i>mateur</i> 20 Calend	<i>Radio</i> ar ay morning aro	Society und 8:30am **	
		20	v2020.05 <i>mateur</i> 20 Calend	<i>Radio</i> ar	Society	December 12-01-2020 7pm
Meeting 1st Tuesday	** Don't forget July 07-07-2020	20 our club breakf August 08-04-2020	v2020.05 <i>mateur</i> 20 Calend ast every Thurso <i>September</i> 09-01-2020	<i>Radio</i> ar day morning aro <i>October</i> 10-06-2020	Society und 8:30am ** November 11-03-2020	December 12-01-2020
Meeting 1st Tuesday Date/Time: Meeting	** Don't forget July 07-07-2020 7pm Paulding Chamber of Commerce	20 our club breakf August 08-04-2020 7pm Paulding Chamber of Commerce	V2020.05 <i>mateur</i> 20 Calend ast every Thurso <i>September</i> 09-01-2020 7pm Paulding Chamber of Commerce	Radio ar day morning aro October 10-06-2020 7pm Paulding Chamber of Commerce	Society und 8:30am ** November 11-03-2020 7pm Paulding Chamber of Commerce	December 12-01-2020 7pm Paulding Chamber of Commerce
Meeting 1st Tuesday Date/Time: Meeting Location Meeting	** Don't forget July 07-07-2020 7pm Paulding Chamber of Commerce Bldg VE Recognition	20 our club breakf August 08-04-2020 7pm Paulding Chamber of Commerce Bldg "Last Man Standing" TV	V2020.05 <i>Imateur</i> 20 Calend ast every Thurso September 09-01-2020 7pm Paulding Chamber of Commerce Bldg	Radio ar day morning aro October 10-06-2020 7pm Paulding Chamber of Commerce Bldg TBA AM DX Contest	Society und 8:30am ** November 11-03-2020 7pm Paulding Chamber of Commerce Bldg PWR Supplies Dummy Loads	December 12-01-2020 7pm Paulding Chamber of Commerce Bldg
Meeting 1st Tuesday Date/Time: Meeting Location Meeting Activity Additional	** Don't forget July 07-07-2020 7pm Paulding Chamber of Commerce Bldg VE Recognition Night	20 our club breakf August 08-04-2020 7pm Paulding Chamber of Commerce Bldg "Last Man Standing" TV (John – WD4QDX)	V2020.05 <b>IMATEUT</b> 20 Calend ast every Thurso September 09-01-2020 7pm Paulding Chamber of Commerce Bldg Grits Bike Ride Club Fall	Radio ar day morning aro October 10-06-2020 7pm Paulding Chamber of Commerce Bldg TBA AM DX	Society and 8:30am ** November 11-03-2020 7pm Paulding Chamber of Commerce Bldg PWR Supplies Dummy Loads Testing Club Elections SCARS OTA	December
Meeting 1st Tuesday Date/Time: Meeting Location Meeting Activity Additional Activities Hamfest &	** Don't forget July 07-07-2020 7pm Paulding Chamber of Commerce Bldg VE Recognition Night TBD Cullman, AL	20 our club breakf August 08-04-2020 7pm Paulding Chamber of Commerce Bldg "Last Man Standing" TV (John – WD4QDX) TBD Huntsville, AL	V2020.05 <b>Mateur</b> <b>20 Calend</b> <b>ast every Thurso</b> <b>September</b> <b>09-01-2020</b> <b>7pm</b> Paulding Chamber of Commerce Bldg <b>Grits Bike Ride</b> Club Fall Picnic (TBD)	AM DX Contest La Grange, GA Chattanooga, TN Rome, GA	Society and 8:30am ** November 11-03-2020 7pm Paulding Chamber of Commerce Bldg PWR Supplies Dummy Loads Testing Club Elections SCARS OTA Reunion Lawrenceville GA Montgomery, AL.	December





#### SILVER COMET AMATEUR RADIO SOCIETY, INC.

**CONTACT US:** 

Groups.io Request: SilvercometARS <u>www.silvercometars.com</u> 146.955 (-) (77hz)

Contact: *Club President* John Reynolds, W4TXA

Email: <u>w4txa.john@gmail.com</u>

SILVERCOMET ARS, INC. PO BOX 1873 HIRAM, GEORGIA 30141