

Please join us at 7pm on the 1st Tuesday of each month in person or on **ZOOM**.

Mount Nebo Methodist Church 3685 Nebo Rd, Dallas, GA 30157

Did You Know

radio comes from the Latin *radius* which means "beam". As late as July 1921 the New York Times was calling it *wireless telephony*, and *wireless* remained widespread until World War II, when military preference for *radio* established it as the word.

Challenge

If each US state was allowed one frequency to be the official state channel, and no two adjacent states have the same frequency, how many frequencies would you need to cover the US?

In This Issue

- Monday Night Net
- SCARS Food Drive
- Christmas Dinner 2022
- Technology History
- Education
- Book of the Month
- Technical Reference
- Adaptories
- Interesting Links
- SCARS Media Center
- Club VE Schedule
- Club Calendar



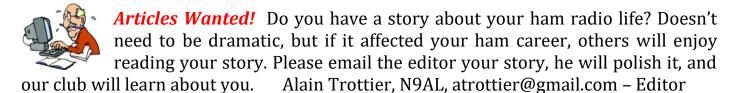








Editor's Notes:



Copies of past SKYWAVE newsletters can be found at the club website http://www.silvercometars.com/newsletter.php.

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



Please join us on the 146.955 (- 77Hz) repeater at 7:00pm and on Zoom. Check the SCARS Groups.IO calendar for meeting and Zoom link information.

It's fun and informative. Suggestions for Topics of Discussion are always solicited. You don't have to dress up because it's very informal and you can bring your dinner and eat it too.

Additional Moderators are needed. If interested in helping out, please contact Troy at troy.davis@hotmail.com

SCARS Community Food Drive!



Let's keep up the good work in 2023. Monetary donations are easy to make on our website at http://www.silvercometars.com/about.php

Helping Hands of Paulding County will gratefully appreciate your thoughtfulness. For more information on this great organization: http://hhpcga.org/community-support/food-pantry-clothing-donations

SCARS Annual Family Christmas Dinner (2022)



The 2022 SCARS Family Christmas Dinner was awesome, so nice to see everyone and their loved ones. Th food was good and company even better.



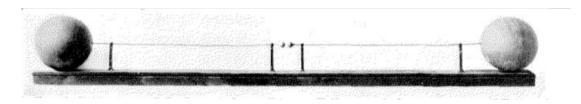


Technology History - Distance Communication

Quote

One cannot escape the feeling that these mathematical formulas have an independent existence and an intelligence of their own, that they are wiser than we are, wiser even than their discoverers. - Heinrich Hertz

Radio



Heinrich Hertz

Scottish mathematical physicist James Clerk Maxwell proposed a comprehensive theory of electromagnetism, now called Maxwell's equations. But it was Hertz who proved Maxwell correct. In the autumn of 1886, after Hertz received his professorship at Karlsruhe, he was experimenting with a pair of Riess spirals when he noticed that discharging a Leyden jar into one of these coils produced a spark in the other coil. This is the first generated and observed radio waves. He used a dipole antenna consisting of two one-meter wires with a spark gap between their inner ends, and zinc spheres attached to the outer ends for capacitance, as a radiator. He generated the radio waves by pulses of high voltage of about 30 kilovolts applied between the two sides. He received the waves with a resonant single-loop antenna with a micrometer spark gap between the ends. This was the first 'radio'.

Quote

I have been frankly fascinated with that unpaid group of people with those ham radios... - Giuliani, Mayor of New York City

Marconi

In 1895 Italian inventor Guglielmo Marconi built the equipment and transmitted electrical signals through the air from one end of his house to the other, and then from the house to the garden. These experiments were, in effect, the dawn of practical wireless telegraphy or radio.

Following the successes of his experiments at home, Marconi became obsessed with the idea of sending messages across the Atlantic. He built a transmitter, 100 times more powerful than any previous station, at Poldhu, on the southwest tip of England, and in November 1901 installed a receiving station at St. John's Newfoundland. On December 12, 1901, he received signals from across the ocean. Marconi received many honors, including the Nobel Prize for Physics in 1909.

Editor: adapted from the National Inventors Hall of Fame



Quote

Because Amateur Radio can bypass the normal Internet, telephone, and postal systems, particularly over the long-distance HF bands, many foreign governments have a legitimate interest in limiting this loss of revenue. - ARRL's Small Antennas for Small Spaces

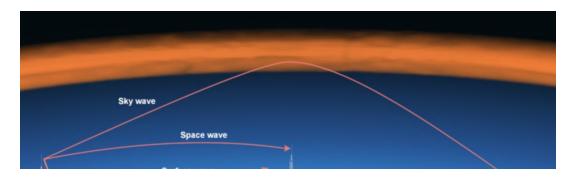
Atmosphere Bounces Radio Waves

The ionosphere contains a high proportion of free electrons which influence radio propagation. High Frequency (HF) radio waves hitting the free electrons in the ionosphere cause them to vibrate and reradiate the energy back down at the same frequency, effectively bouncing the radio wave back towards the Earth.

Q: What is the best type of surface or terrain to use for surface wave transmission?

- a) Desert
- b) Fresh water
- c) Jungle
- d) Rocky terrain
- e) Seawater

The correct answer is e.



Movies

Best Ham Radio Movies

Contact - 1997

A radio astronomer receives the first extraterrestrial radio signal ever picked up on Earth. As the world powers scramble to decipher the message and decide upon a course of action, she must make some difficult decisions between her beliefs, the truth, and reality.

Aningaaq - 2013

Aningaaq, an Inuit fisherman camping on the ice over a frozen fjord, talks through a two-way radio with a dying astronaut who is stranded in space, 500 kilometers above Earth. Even though he doesn't speak English and she doesn't speak Greenlandic, they manage to have a conversation about dogs, babies, life and death.

Men of Boys Town - 1941

Father Flanagan raises funds, helps a disabled boy, and saves an older boy from reform school.

A Family Affair - 1937

Judge Hardy faces problems at work and at home. Powerful men in town are upset with his decisions and want to see him impeached; his daughters, Joan and Marion, have romantic problems; and his son, Andy discovers Polly Benedict. As usual, Judge Hardy is concerned with everyone in the family and lends wisdom and calmness to all.

Everybody's Hobby - 1939

A hobby-mad family makes their obsessions pay off.

The Story of the Queen Mary and W6RO - 2008

Amateur Radio station W6RO has enjoyed over 29 years of continuous operation aboard the Queen Mary. Nearly 100 radio amateurs volunteer every month to operate from the station. Since radio was reintroduced to the ship, W6RO has presented a positive image of the Amateur Radio Service to more than four million visitors. Permanently docked at the Port of Long Beach, the Queen Mary is one of the most popular tourist attractions in Southern California. W6RO is a regular stop for visitors on the self-guided tour, and visiting radio amateurs may log in and get on the air. The former passenger liner is on the National Register of Historic Places.

Moving Up to Amateur Radio - 1974

Short film designed to introduce CB operators during the '70s to the wonders of Amateur Radio

Ham - 2022

A group of Montanan hams show the fading but loyal community of amateur radio, explore what it means to be a ham, and how they are trying to keep the hobby alive.

High Frequency - 1988

A boy who operates a ham radio and a man who works at a satellite relay station witness the same murder thousands of miles apart and have to figure out how to warn the next potential victim.

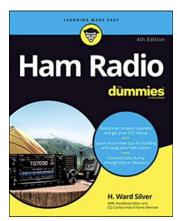
The Ham's Wide World - 1966

A public service announcement on Amateur Radio, broadcast around the world in the 50s, this film produced by Hollywood producer and Amateur Radio Operator Dave Bell introduces the viewer to the world of the Ham.

Editor: list adapted from The Movie Database (themoviedb.org).

Book of the Month

Ham Radio For Dummies 4th Edition



by H. Ward Silver

Amateur radio is on the rise, and the airwaves are busier than ever. That's no surprise: being a ham is a lot of fun, providing an independent way to keep in touch with friends, family, and new acquaintances around the world—and even beyond with its ability to connect with the International Space Station! Hams are also good in a crisis, keeping communications alive and crackling during extreme weather events and loss of communications until regular systems like cell phones and the internet are restored. Additionally, it's enjoyable for good, old-fashioned tech geek reasons—fiddling with circuits and bouncing signals off the ionosphere just happens to give a lot of us a buzz!

Longtime ham Ward Silver (Call Sign NØAX)—contributing editor with the American Radio Relay League—patches you in on everything from getting the right equipment and building your station (it doesn't have to be expensive) to the intricacies of Morse code and Ohm's law. In addition, he coaches you on how to prepare for the FCC-mandated licensing exam and tunes you up for ultimate glory in the ham radio hall of fame as a Radiosport competitor! With this book, you'll learn to:

- Set up and organize your station
- Communicate with people around the world
- Prep for and pass the FCC exam
- Tune into the latest tech, such as digital mode operating

Whether you're looking to join a public service club or want the latest tips on the cutting edge of ham technology, this is the perfect reference for newbies and experts alike—and will keep you happily hamming it up for years!

Best Technical Reference Book

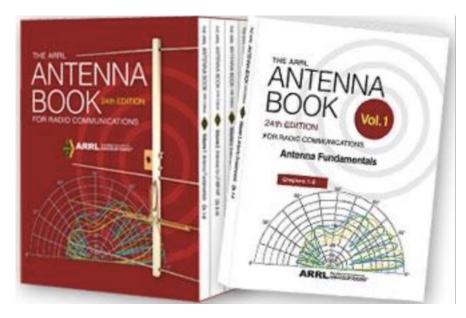
Hard to understand, hard to remember, extensive theory.

The ARRL Antenna Book for Radio Communications

This is a single resource covering antenna theory, design and construction, and practical treatments and projects. This book contains everything you need to understand how radio signals propagate, how antennas work, and how to construct your own antenna system. Use The ARRL Antenna Book to build hundreds of antenna designs: dipoles, verticals, loops, beams, and more.

Key Topics:

- New coverage of small transmitting loops
- New and expanded coverage of microwave antennas
- Many new MF, HF, and 6-meter antenna design articles
- Instructions to acquire HFTA terrain profiles online
- An overview of VHF/UHF rover antenna systems
- New chapter on VHF/UHF Antenna systems
- Rotator ratings, installation, and maintenance



Adaptories

Adaptation + Stories = Classics for Children

One Radio, Two Radios

One radio, two radios, three radios - four Five radios, six radios, seven radios - more Eight radios, nine radios, ten radios - all One, two, three, four, five, six, seven, eight, nine, ten

One radio, two radios, three radios - four Five radios, six radios, seven radios - more Eight radios, nine radios, ten radios - all. From "One Potato, Two Potatoes" song

Eeny, Meeny, Miny, Radio

Eeny, meeny, miny, radio, Catch a buddy by the QSO. If he cusses, let him go, Eeny, meeny, miny, radio. From "Eeny, Meeny, Miny, Mo"e children's rhyme

The Radio and the Antenna

The Radio and the Antenna were disputing which was the stronger, when a traveler came along driving in a Tesla car. They agreed that the one who first succeeded in making the traveler stop the car and get out should be considered stronger than the other.

Then the Antenna blasted the car with radio waves as hard as he could, but the more he propagated the more closely did the traveler hold the steering wheel. At last the Antenna gave up. Then the Radio blasted the driver with warnings of fire in the engine, and immediately the traveler stopped the car and ran away.

And so the Antenna was agreed that the Radio was the stronger of the two. From "The North Wind and the Sun", one of Aesop's Fables

<u>Interesting Links</u>

ARRL

ARRL Home: www.arrl.org

ARRL Affiliated Club: www.arrl.org/clubs ARRL Section: www.arrl.org/sections

License class in your area: www.arrl.org/class
License exam in your area: www.arrl.org/exam
Hamfest or convention: www.arrl.org/hamfests

Email ARRL Clubs: clubs@arrl.org

SCARS Media Center

Web: http://www.silvercometars.com/index.php
Groups.IO: https://silvercometars.groups.io/g/main

Facebook: https://en-gb.facebook.com/groups/2360561620926754/

QRZ: https://www.grz.com/db/W4RSC/

Info: Info@silvercometars.com or Silvercometars@gmail.com Webmaster: Troy Davis (K4JDA) at troy.davis@hotmail.com Newsletter editor: Alain Trottier (N9AL) at atrottier@gmail.com

Upcoming Events

Watch for K4ELI's weekly email notices for 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

Breakfast @.....

Ready to join us for casual conversation, informal Q&A, problem solving? We meet at Martin's Restaurant, 3918 Charles Hardy Parkway (HWY 120), Dallas 30157, every Thursday @ 8:30am. Visitors, spouses and friends are welcomed.

The GA ARES State Meeting 2023 is scheduled for February 11 at the Georgia Public Safety Training Center in Forsyth, GA. Information: https://www.gaares.org

SCARS Amateur Radio Licensing Schedule

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, 1st Thursday of each month.

No walk-ins. Register or call ahead. See sign at Front Desk for Room #.

2023 Schedule

Feb 2 * Mar 2 * Apr 6 * May 4 * Jun 1

For more information: Steve Walls, K4ELI: swalls46@att.net (404) 697-9849

All classes of license exams will be available.

SCARS/Paulding Test Session (aka West)

W4TXA and the VE Team will be testing at 6:30pm at the 2735 Hiram Acworth Hwy (Hwy 92), Dallas, GA 30157, 2nd Tuesday of each month.

2023 Schedule

Feb 14 * Mar 14 * Apr 11 * May 9 * Jun * 13

For more information: John Reynolds, W4TXA, w4txa.john@gmail.com (770) 715-9640

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 http://www.silvercometars.com/about.php#TEST_SESSION

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

Silver Comet Amateur Radio Society

2023 Calendar

** Don't forget our club breakfast every Thursday morning around 8:30am **						
	February	March	April	May	June	July
Meeting 1st Tuesday Date/Time:	2/7 7:00 PM	3/7 7:00 PM	4/4 7:00 PM	5/2 7:00 PM	6/6 7:00 PM	7/4 7:00 PM
Meeting Location	TBA	TBA	TBA	TBA	TBA	TBA
Meeting Activity	ТВА	ТВА	ТВА	ТВА	ТВА	ТВА
Additional Activities	TBD	TBD	TBD	ТВА	ТВА	ТВА
Hamfest & Conventions	ТВА	ТВА	TBA	ТВА	ТВА	TBA

This calendar is "Subject to change". Submit change request to K4ELI Steve

V2023.0



SILVER COMET AMATEUR RADIO SOCIETY, INC.

CONTACT US:

Groups.io Request: SilvercometARS@groups.io

Repeater: 146.955 (-) (77hz)

Contact: Club President Dan Ozment, W4DTO Email: dan@ozment.net

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