



Affiliate



Published by the Southwest Iowa Amateur Radio Club Inc.

SWIARC meets the 4th Thursday of every month at the Charles E. Lakin Human Services Campus 705 N. 16th Street Council Bluffs, IA 51501

Dear Santa...I can explain !

SWIARC OFFICER ELECTION 2024

With the appearance of September also comes the election of SWIARC INC. Club officers for the next year. From the SWIARC INC. Club Constitution (as found on the official Club's website, WWW.SWIRADIO.ORG.

OFFICERS:

Section 4.

All officers of this Club shall be elected for a term of one year, by ballot of the members present at the meeting in September of each year.

MEETINGS:

Section 1.

The By-Laws shall provide for regular and special meetings. At meetings, the members present shall be considered a quorum and a simple majority of a quorum vote, except as noted elsewhere in the Constitution and By-Laws, will be considered necessary for the transaction of business.

I congratulate the following for their voluntary acceptance of the quorum's votes.

SWIARC officers for 2024

Pres: Derek W0TYG

VP: Craig KD0YTI

Sec'y none yet

Treas: Rich WA0ZQG

Trustee: Chris KF0FBL

The Action 2023

Nov 4th-35th
8am-930am

Saturday Breakfast
Sugars Diner*

Nov 4
9-1030am

Heartland Hams Monthly Breakfast
Tobey Jacks Mineola Steak House*

Nov 4th

Coffee at Lake Manawa

Nov 4th
Any 4 Hours

RaDAR Ra
[Link for mo.](#)

SWIARC Meeting

Date Changed

Nov 16
7-8pm

SWIARC Club Meeting
Red Cross Building*

Dec 2th-30th
8-930am

Saturday Breakfast
Sugars Diner*

Dec 2
9-1030am

Heartland Hams Monthly Breakfast
Tobey Jacks Mineola Steak House*

Dec 28
7-8pm

SWIARC Club Meeting
Red Cross Building*

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Sugars Diner
2725 E Kanessville
Blvd, Council
Bluffs, IA 51503

Red Cross CB
705 N. 16th Street
Council Bluffs, IA
51501

Tobey Jacks
408 Main St,
Mineola, IA
51554

RaDAR Rally

Rapid Deployment Amateur Radio

Introducing the RaDAR Rally for Rapid Deployment Amateur Radio

The [RaDAR Rally](#) encourages a challenging and rewarding portable operating experience by promoting the rapid deployment of your station and physical exercise. The rules are [here](#). The next RaDAR Rally is November 4th, 2023. Please join the RaDAR group on groups.io. Greg N4KGL is the POC for the Rally. My info is good on QRZ.COM.

Shack Chat



Paul GXD's Tower Party

Did the Antenna get hit by a lightning bolt; No.
Did the coax cable feeding the Antenna crack or was introducing noise; No.
Then what the heck is wrong with your Antenna on it's 40 foot Tower that required a whole crew to straighten this out?

OHH the video camera isn't working right; RIGHT!!

BUT, What better excuse to install a New Diamond X-300A UHF/VHF Dual Band Base Antenna *and* a Diamond D130M 25-1300mhz Wideband Antenna.

Pics, but of course!
Enjoy....



Figure 2: Dan the Man!

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WHO INVENTED THE RADIO?

Nikola Tesla's initial goal in 1881 was to approximate the frequency of sunlight and create lamps of revolutionary brightness and configuration. This, he hoped, would eliminate Edison's incandescent lamp, which utilized only five percent of the available energy.

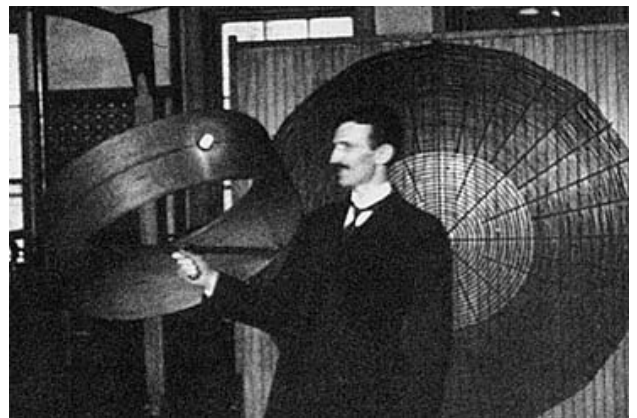


Figure 1: Nikola Tesla was born a subject of the Austro-Hungarian Empire in 1856

Tesla began his high frequency investigations by building rotary AC generators that could run at higher speeds; but as he approached twenty thousand cycles per second, the machines began to fly apart, leaving him far short of his goal.

The answer came with a remarkable device still known today as a Tesla coil. Patented in 1891, this invention took ordinary sixty-cycle per second household current and stepped it up to extremely high frequencies—into the hundreds of thousands of cycles per second. In addition to high frequencies, the coil could also generate extremely high voltages.

With high frequencies, Tesla developed some of the first neon and fluorescent illumination. He also took the first x-ray photographs. But these discoveries

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Paul GXD's Tower Party Cont.



Figure 3: The Kite Loop-De-Loop Contest

Paul GXD's Tower Party Cont.



Figure 5: How long till the cement cures?



Figure 4: I see why we're repositioning these



Figure 6: Part of "The Crew", Many Thanks!

Same Time Next Year?

Paul

WHO INVENTED THE RADIO? Cont.

paled when compared to his discovery of November 1890, when he illuminated a vacuum tube wirelessly—having transmitted energy through the air.

This was the beginning of Tesla's lifelong obsession—the wireless transmission of energy. With his newly created Tesla coils, the inventor soon discovered that he could transmit and receive powerful radio signals when they were tuned to resonate at the same frequency. When a coil is tuned to a signal of a particular frequency, it literally magnifies the incoming electrical energy through resonant action.



Figure 7: Tesla: March 1, 1893

By early 1895, Tesla was ready to transmit a signal 50 miles to West Point, New York... But in that same year, disaster struck. A building fire consumed Tesla's lab, destroying his work.

The timing could not have been worse. In England, a young Italian experimenter named Guglielmo Marconi had been hard at work building a device for wireless telegraphy. The young Marconi had taken out the first wireless telegraphy patent in England in 1896. His device had only a two-circuit system, which some said could not transmit "across a pond."

Later Marconi set up long-distance demonstrations, using a Tesla oscillator to transmit the signals across the English Channel.

Tesla filed his own basic radio patent applications in 1897. They were granted in 1900. Marconi's first patent application in America, filed on November 10, 1900, was turned down. Marconi's revised applications over the next three years were repeatedly rejected because of the priority of Tesla and other inventors.

The Patent Office made the following comment in 1903: *Many of the claims are not patentable over Tesla patent numbers 645,576 and 649,621, of record, the amendment to overcome said references as well as Marconi's pretended ignorance of the nature of a "Tesla oscillator" being little short of absurd... the term "Tesla oscillator" has become a household word on both continents [Europe and North America].*

But no patent is truly safe, as Tesla's career demonstrates.

In 1900, the Marconi Wireless Telegraph Company, Ltd. began thriving in the stock markets—due primarily to Marconi's family connections with English aristocracy. British Marconi stock soared from \$3 to \$22 per share and the glamorous young Italian nobleman was internationally acclaimed. Both Edison and Andrew Carnegie invested in Marconi and Edison became a consulting engineer of



Figure 8: Marconi with early system of wireless telegraphy

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WHO INVENTED THE RADIO? Cont.

American Marconi. Then, on December 12, 1901, Marconi for the first time transmitted and received signals across the Atlantic Ocean.

Otis Pond, an engineer then working for Tesla, said, "Looks as if Marconi got the jump on you." Tesla replied, "Marconi is a good fellow. Let him continue. He is using seventeen of my patents."

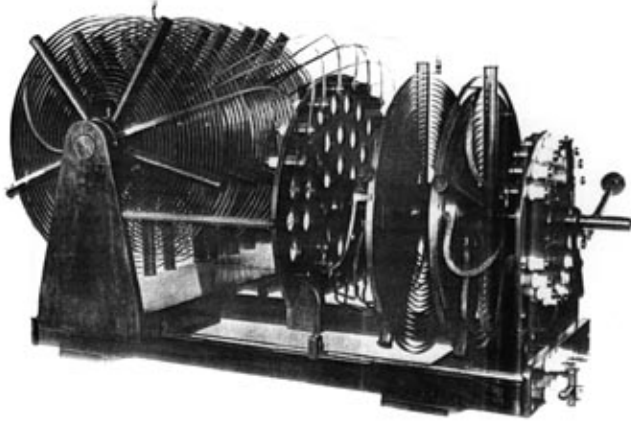


Figure 9: U.S. Navy shipboard transmitter manufactured by the Löwenstein Radio Company. This was a 5-kilowatt set capable of 1,500-mile transmission used during World War I. A handwritten caption by Nikola Tesla reads: "Apparatus installed under my patents on many war vessels which according to Secretary Daniels is 'superior' to any other."

But Tesla's calm confidence was shattered in 1904, when the U.S. Patent Office suddenly and surprisingly reversed its previous decisions and gave Marconi a patent for the invention of radio. The reasons for this have never been fully explained, but the powerful

financial backing for Marconi in the United States suggests one possible explanation.

Tesla was embroiled in other problems at the time, but when Marconi won the Nobel Prize in 1911, Tesla was furious. He sued the Marconi Company for infringement in 1915, but was in no financial condition to litigate a case against a major corporation. It wasn't until 1943—a few months after Tesla's death—that the U.S. Supreme Court upheld Tesla's radio patent number 645,576. The Court had a selfish reason for doing so. The Marconi Company was suing the United States Government for use of its patents in World War I. The Court simply avoided the action by restoring the priority of Tesla's patent over Marconi.

So, Who do you think Invented Radio?

S.W.I.A.R.C.

Join the Club!

SWIARC club dues are \$20/year for 2023. You may bring a check to any 4th Thursday club meeting, or send it to the club address:

SWIARC INC.

PO BOX 661

- COUNCIL BLUFFS IA 51502
- Dues for students are half price per year.

Club Officers

President Derek W0TYG

president@swiradio.org

Vice President Craig KD0YTI

vicepresident@swiradio.org

Secretary Rich WA0ZQG

secretary@swiradio.org

Treasurer Greg N0GR

treasurer@swiradio.org

Station Trustee Chris KF0FBL

repeater@swiradio.org

Paul WBØGXD (Assistant)

Club Committees

Repeater Chris KF0FBL

repeater@swiradio.org

Paul WBØGXD (Assistant)

Field Day

fieldday@swiradio.org

Hamfest Derek W0TYG

hamfest@swiradio.org

Other Contacts

Ham Testing

testing@swiradio.org

Newsletter Rich KORWJ
newsletter@swiradio.org

SWIARC ONLINE





**Strategic Air Command
Memorial Amateur Radio Club**

KØAIR - KØGRL

Celebrating the history of Strategic Air Command and General Curtis E. LeMay.
WWW.SACMARC.ORG

The Strategic Air Command Memorial Amateur Radio Club (SACMARC), Incorporated, is a Non-Profit, Public Benefit Corporation in the State of Nebraska and is temporarily not affiliated with the American Radio Relay League, Incorporated, of Newington, Connecticut. The purpose of the corporation is to preserve the communications history of the Strategic Air Command and United States Air Force through amateur radio by a variety of lawful means. A historic military-recreation callsign (formerly associated with Headquarters SAC, [Offutt Air Force Base](#), near Omaha, Nebraska), [KØAIR](#), as well as the personal call sign of [General Curtis E. LeMay](#) when he was the CINCSAC, [KØGRL](#), were recovered from the [Federal Communications Commission \(FCC\)](#) in order to serve as a living exhibit of both past and present amateur radio communications.

SWIARC REPEATERS and NETS:

Club Repeaters

Primary Club Repeater: 2M @ 146.820 R- No PL
SWIARC digital C4FM 442.225 PL 136.5 Wires-X connected.

Club Nets

146.82 Tues. OPS Net 9:00 pm - 10:00 pm
146.82 Wed. Ragchew Net 9:00 pm - 10:00 pm
146.82 Sat. Swap Net 12:00 pm - 1:00 pm



More Local Nets

Sunday

02:00 PM 50.2 Mhz 6 meter net
07:50 PM 144.25 2M USB Heartland Hams
09:00 PM 146.94 Aksarben ARC

Monday

07:00 PM 145.29 Heartland Hams ARES informal net
08:00 PM 147.39 PL: 131.8 Bellevue ARC
09:00 PM 146.94 Aksarben ARC Chat Net

Tuesday

07:00 PM 147.36 QCWA Net, Chapter 210
(seasonal, October through March).
09:00 PM 146.82 KØSWI SWIARC Tuesday OPS Net

Wednesday

07:00 PM 146.67 Dodge Co. Ne. ARES
08:00 PM 147.39 PL 131.8 Mid-America Council Radio Scouting Net
09:00 PM 146.82 KØSWI SWIARC

Thursday

07:30 PM 145.31 Lincoln Ne. SATERN Net.
08:00 PM 28.35 10-Meter SSB Net.
08:00 PM 144.25 2-Meter Simplex U-SSB Net.
08:00 PM 146.36 Heartland DX Ass.
09:00 PM 28.305 10-Meter Net.

Friday

Saturday
09:00 AM 146.775 Pawnee ARC
12:00 PM 146.82 KØSWI SWIARC Swap Net
07:00 PM 145.29 Heartland Hams Tech. net
08:30 PM 3.921.00 QCWA Chapter 20.

Want Other Nets listed ? Let me know, email newsletter@swiradio.org

Meeting Minutes 09/2023

Nineteen of us showed up even though it was time to select 'volunteers' to serve as club officers next year. (2 other guys chose the Zoom link.)

Derek	W0TYG	Dell	KF0NSP
Don	W0AF	John	KB0QKH
Bruce	N0BHB	Bob	W0RJE
Chris	KF0FBL	Rick	KA0RLR
Bill	KD0FJR	Rich	K0RWJ
Greg	N0GR	Dan	KB0TDW
Paul	WB0GXD	Dennis	WA0VJL
Rick	KF0IQL	John	AB0VX
Manny	KF0IWE	Wayne	KN0WDJ
Norm	WA0JYD	Craig	KD0YTI
	(21)	Rich	WA0ZQG

Some free stuff was handed out early, a Lithium backup battery for phones, 12V at 2Amp wall wart, and a few other items. Not taken was 1 of two 9V 700mA wall warts, and a 6 wire cable. ZQG showed 2 AM/FM radios, one that's free from Newsmax, and a \$25 **QFX R-37** from EBay that uses an 18650 Lithium battery with a 60mA solar panel, and also does 4 SW ranges.

Beginning the business meeting after the fun stuff, we approved printed **Minutes** and accepted Greg N0GR's \$3,435 **Treasurer's** report.

Repeater

Dennis VJL replaced the 2 RF power transistors on our **Henry** 100W VHF amp, but they weren't a matched set (hard to get them that way) and the amp only puts out 70W now. We approved \$400 to get it done by Henry, and then another motion to upgrade Repeater Committee authorization to fix normal problems from \$200 per incident to \$500. (Our people are rational, cautious, and responsible. Not like our elected reps.)

Our **Astron 35** blew up again. The one that Rich ZQG 'fixed' with a new bridge rectifier. They will look at an Astron 50 (load is 25A cont.)

The VHF .82 repeater is 15 ft up at Memorial Park. John QKH offered his site at 1250 ASL and a 55 ft telephone pole. Wants to use a bucket truck to place the antenna (for a couple hundred). Rick KF0IQL said his site out East by the airport is closer to 1300.

Old Business

Derek TYG will arrange our year end dinner at **Sugar's** (out East by Bomgaars) probably in the days between Christmas and New Year's.

Don W0AF offered a **Vibroplex** key to winner of a CW contest. It was won by Mike KC0FAN who made about 70 contacts. Don is now setting up a **2M contest** for early next year. Heartland Hams, SWIARC, and Bellevue (BARC) clubs may contribute toward a prize for the winner. Recognition for: farthest contact; most contacts, and most 'points' (modes, sections, distance, etc.)

We may provide comm for a **Veteran's Parade** down Main Street on Saturday November 4th.

Paul GXD had a tower party at his house, and these people helped: N0BHB, KF0FBL, KS0L, KF0NSP, KB0QKH, W0RJE, KB0TDW, and WA0VJL. Dan TDW did the climbing. We had a couple of lightning stories from Paul GXD, John QKH, and Rich ZQG.

New Business

Pres Derek TYG turned the business meeting over to Paul GXD for election of officers (because Paul has memorized the Robert's Rules procedures for elections).

With all the formalities, extending time for nominations three (3) separate times etc., it took maybe twice as long as just appointing a couple guys. We didn't need any votes. All were elected by acclamation (except club Secretary because no one volunteered for that job).

SWIARC officers for 2024

Pres	Derek W0TYG
VP	Craig KD0YTI
Sec'y	none yet
Treas	Rich WA0ZQG
Trustee	Chris KF0FBL

Rich K0RWJ said a bill has been introduced in Congress regulating towers even in HOA areas. We adjourned the meeting at 8:13 PM.

Minutes by Club Secretary, WA0ZQG