



**Next General Meeting
November 4th, 2016
Carr Gottstein Building - 7:00pm**

Hello Everyone!

Hope everyone is enjoying the fall weather as we are approaching winter!

Again, thank you for all of the information and material for the newsletters each month, if you have any concerns or suggestions please let me know. Hope you all are doing well!

-Syd

KL4DG

It's time to get ready for our December meeting which will be on Friday 12/2/16. We will have an "ugly" Christmas sweater/sweatshirt contest. Contest categories will be determined that night but might include funniest, cutest, best use of technology, etc. so dig out your old sweater, build a new sweatshirt creation or buy one of the new 2016 model "ugly " Christmas sweaters.

We will also have a gift exchange. Bring a wrapped gift with a \$10.00-\$20.00 value. You **MUST** bring a gift to participate in the gift exchange activity.

More information will be available at the November meeting and on the nets as it becomes available.

See you all in December,

Allen, KL1QCE

Activities Manager



Reviewed on 15 Sept-

Kenwood TS-940S/AT HF transceiver (150 KHz – 30 MHz) with all band transmit mod, and service manual. Last used in 2007, needs internal batteries replaced. Includes Heil BM-10 boom headset mic with HC-4 DX element. \$700

24-hour clock by Seth Thomas, \$20

Sennheiser HD-485 open-air, over-the-ear 32-ohm headphones \$45

Sennheiser HD-600 open dynamic hi-fi professional 300-ohm headphones \$250

Kenwood TH-21AT 2M synthesized HT \$35

HyGain 674-PR CB 23-channel AM/SSB radio \$15

Solder gun Weller D550PK 200/260W professional heavy duty, \$30

Mike AL7KC [460-0242](tel:460-0242) (text or call) or email [AL7KC@yahoo \(dot\) com](mailto:AL7KC@yahoo.com)

The Elmendorf ARS is selling two amplifiers (HF) and an HF Radio.

1. Kenwood TL-922A, 1.2kw running a single 3-500 tube. Wired for 220vac. \$600 or best offer.

2. Harris RF-101 Amp from the 1980's running two 3-400 tubes wired for 110vac. Works and should produce 1.3kw as wired. If rewired to 220 it should produce over 2kw. This is a floor model with built in heavy duty power supply. Needs some TLC, does not appear to need much work to be back to 100%. Band Selection Switch needs some attention. VERY HEAVY! \$250 or best offer.

3. Kenwood TS-930 with Kenwood MC-50 Desk Mic. Works well. \$400.

Contact the Club at club@kl7air.us or Ron Keech, KL7YK at kl7yk@arrl.net

Club Phone recording line is 552-2664, leave a message we will call you back if its a local call.

Jerry, KL7EDK

My HP printer has suffered a catastrophic mechanical failure. As a result I have a number of new ink cartridges that are now excess to my needs. It was an HP 6700 series.

If anyone can use the 932XL and 933XL cartridges let me know and I'll pass them on.

Thanks-

e-mail: jerrycurry@att.net

Wanted Items - Clean out your closet/shack of unwanted items!

NOTE: From the Webmaster- Scott is working on project items for educational purposes for new Hams as well as improving his own Amateur capabilities.

Scanner radio- maybe a wider band Bearcat or Radio Shack

Rotator Alliance/Radio Shack TV light duty type. Or a heavy duty rotor
your not wanting to bother repairing.

T200 or T225 or T130 Toroids

Diamond DX 100 or equivalent, need one to cover 1200 MHz (23CM
band)

Equipment for use in building either a 2 Meter or 1.25 Meter repeater

General electronics junk

Old junked antennas for build materials

9 to 1, 4 to 1 UNUN or Baluns

Junk Satellite dish

Keyer & Bug

IRLP interface

D-Star capable radio (mobile)

Really looking for an IC-756 or Yaesu FT-1000/FT950 to trade or \$/trade
combo deal

Scope/analyzer

GDO

Flux capacitor

Oscillation over thruster (for you Buckaroo Banzai Fans)

The Tough Times Glossary

Here I am, writing a piece on critical infrastructure and Homeland Security has declared November Critical Infrastructure Month. Well. No prize for novelty this month. The following definitions may at **first seem imbedded in each other (illegal) but... well, read ‘em and judge for yourself.**

The first word (**read ‘concept’**) in this group is function, **defined as** “the action or purpose for which a person or thing is suited or designed.” [Latin *functio* from *fungi* to perform, execute, discharge] Easy peezy, right? A telephone’s **function, by design**, is to facilitate communication; a light bulb is designed **to help maintain the shape of one’s nose**; a dumpster lid functions to keep ravens from having any fun; my function is to, um, uh, **I’ll get back to you on that.**

Don’t think small here. A function of the United States government is defense and all entailed. The accounting function at Boeing is larger than most medium-size businesses. Okay, now think small. Are your toenails mere vestigial remains, or do they have a function? Drop something on the end of your toe and **you’ll be glad you have them.**

A critical function is “a function that cannot be interrupted for more than a few days without detriment to the system of which it is a component.” [Latin *criticus*, from Greek *kritikos*, from *krinein* judge, decide] If an organization’s viability is diminished when one of its supporting functions is diminished, that function is critical.

Now, remember the difference between ‘communication’ and ‘communications’ as discussed previously. Because communication is vital to a hospital’s ability to execute its mission, communications is part of its critical infrastructure. **Let’s define** critical infrastructure as “systems and assets vital to the continuity of government, business, ministry, persons, or **functions.**” [Latin *infra* below + *structus* to construct] In other words, critical infrastructure is the collection of functions which make up the fundament, the foundation, of a system as opposed to the bells and whistles.

At one time communications would not have been considered critical hospital infrastructure. Of late, however, hospitals have grown so large and complex that staff doesn’t have time to run to several departments to set up an operation. If communication is diminished, so too must patient intake be reduced accordingly. This is bad news after a tornado or earthquake.

To the rescue comes Super Ham! Equipped only with a tiny hand-held radio, two antennas, and, yes, a can of Spam and a spork, not to mention practiced procedures and protocols, he steps up, sets up, and communicates. Yes, ladies and gentlemen our intrepid RF junky has dedicated himself, and a sizable percentage of his discretionary income, to prepare for just such a moment as this.

Stand by for the next installment of the Tough Times Glossary when Super Ham must contend with that nefarious sea monster Cause and its sidekick, Effect.

In Memory of Silent Keys (SK)

Mary Laws, age 90, is now a silent key. Call sign was NL7DM. Went by Daisy May. Past AARC members, she and her husband, Bud Laws are now both silent keys. They moved to Olympia Washington about 25 years ago. All three of their daughters at one time were also licensed amateur operators.

Bud Laws, KL7IBZ, proceeded her in death several years ago.

While living in Alaska they were involved in a lot of AARC events.

No further information is available Information submitted by Lillian Marvin





November 2016



Sun	Mon	Tue	Wed	Thu	Fri	Sat
		1	2	3	4 AARC General Meeting	5
6	7	8	9	10	11	12
13	14	15 AARC BOARD	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30			

Happy
Thanksgiving





Monthly Events



1st Friday each month: AARC general meeting - 7:00 PM in the Carr-Gottstein Building, on the APU Campus. Talk in will be on 147.33+ repeater.

1st Tuesday each month (except for holidays): VE License Exam 6:30 PM, at the Hope Cottage offices, 540 W International. Bring photo ID, copy of license (if any) and any certificates of completion. Contact: Jim Wiley, KL7CC 688-0660.

1st Thursday each month: Moosehorn Amateur Radio Club General meeting - 7:00 PM Location is at Borough Emergency Response Center on Wilson Way in Soldotna (behind Soldotna FD. Call for directions on 146.88 repeater (no tone). Moosehorn ARC also holds a weekly luncheon every Thursday, locations and times change — contact George Van Lone, KL7AN: donnav@acsalaska.net

2nd Saturday each month: PARKA (Polar Amateur Radio Klub of Alaska) Meeting at 11:00 AM. Polar Amateur Radio Klub of Alaska. All amateurs welcome. Denny's on Denali Street in Anchorage. Some business is discussed. Originally established as an all woman organization, membership now includes spouses or significant others. Talk in on 147.30+.

2nd Saturday each month (except for holidays): VE License Exams at 2:00 PM. at Hope Cottage 540 W. International. Be sure to bring photo ID, copy of license (if any) and any certificates of completion. Contact: Jim Wiley, KL7CC 688-0660.

3rd Tuesday each month: AARC Board Meeting at 7:00 PM at Hope Cottage 540 W. International. All hams are invited and encouraged to attend.

2nd Wednesday of each month: EARS general meeting at 6:00 PM. EARS meetings are held at the EARS shack location. Contact info - Ron Keech, KL7YK for information. EARS: 552-2664 (recording); Talk in on 146.67-. Email: club@KL7air.us or kl7yk@arrl.net

4th Saturday of each month: Valley VE Testing at 7:00 PM. Sessions will be held at Fire Station 61, at 7 pm on the fourth Saturday of each month unless it is a major holiday weekend. Contact Ken Slauson, KL7VE, Ken.Slauson@gmail.com or 907-376-8698.

The last Friday each month: MARA meeting at 7:00 PM, Wasilla Fire Station 61. New repeater is online and now requires 103.5 Tone on the 146.85 repeater. Further details can be found by contacting Don Bush, KL7JFT, dbush@gci.net.

Every Monday at 11:00 AM: Meeting of interested Amateur Radio Operators — and lunch at Denny's on DeBarr — across from Costco. Many code and HF operators attend this function. Come talk radio. For information, contact Kathy O'Keefe, KL7KO, kokalaska@gmail.com

Every Saturday at 7:00 AM: Meeting of a group of Amateur Radio Operators at Denny's on Denali for breakfast. Topics? Radio, photography, and upcoming events For information, contact Kathy O'Keefe, KL7KO, kokalaska@gmail.com.

ACTIVE NETS IN ALASKA

VHF

The local VHF Nets have a Packet side as well. Look for 2 meter Packet at 145.01 (Eagle) and 147.96 (Valley).

The Eagle and Valley Packet Nodes provide a "talk" or chat function. Also if you are unable to connect directly to onto the nodes, try digipeating through "EARS" on either frequency. Do this by typing "c eagle v ears" or "c vally v ears" on the appropriate frequency. See KL7AIR.US for more info on the digipeaters.

ARES Net: 147.33 103.5Hz - Thursdays at 8:00 PM local

No Name Net: 146.43 simplex Sundays 8:00 PM

South Central Simplex Net: 146.52 FM, 144.2 USB, 446.0 FM, 432.2 USB, 223.5 FM, 927.5 FM, 1294.5 FM, 52.525 FM, 50,125 USB, 29.6 FDM, 28.4 USB, 145.01 packet (Eagle node) and 147.96 packet (Valley node).

Tuesdays 8:00 PM local

Alaska VHF Up Net: 144.200 USB Saturdays 9:00 AM local

Statewide LINK Net: 145.15(-) PL 123.0Hz; Sundays 8:30PM local

Alaska Morning Net: The Alaska Morning net is held Monday through Saturday from 9am- 11am on the IRLP Reflector 9109. This net can be reached via several hosting nodes in the area. Please visit <http://status.irlp.net/index.php?PSTART=2&mode=3> to find the closest node. Also, the net can be reached via Echo Link on 9191 (WL7LP-R) and Allstar nodes 27133 and 29332.

The Alaska Statewide ARES net is held Thursday evenings at 8:30pm (following the Anchorage ARES net) on IRLP 9109, Echolink WL7LP-R and Allstar 27133 or 29332 as well as the Sunday evening Alaska Statewide Radio Link net at 8:30pm.

HF

- **Alaska Sniper's Net:** 3.920 MHz 6:00 PM daily
- **Alaska Bush Net:** 7.093 MHz 8:00 PM daily
- **Alaska Motley Net:** 3.933 MHz 9:00 PM daily
- **ACWN (Alaska CW Net):** 3540 kHz, 7042 kHz, 14050 kHz Non-directed, CW calling and traffic watch for relaying NTS of other written traffic. AL7N monitors continuously. Receivers always on WL2K. (RMS connection available (AL7N@winlick.org))
- **Alaska Pacific Net:** 14.292 MHz 8:30 AM M-F
- **ERC HF Net:** 3.880 MHz—Sunday 8:30PM

DATA YOU CAN USE

Frequency	Tone	Call Sign	Features	Area
147.18 -	88.5	ADES		Ft. Richardson
146.88 -	no tone	AL7LE	Phone patch	Kenai Soldotna
146.82-	103.5	WL7CWE	IRLP	Anchorage
146.76 -	123.0	KL3K	IRLP	Seward
146.94 -	103.5	KL7AA	Phone patch	Anchorage to Wasilla
224.94 -	no tone	KL7AA		Anchorage
444.70 +	103.5	KL7AA	Phone Patch	Anchorage
146.67 -	103.5	KL7AIR	MARS Station	Anchorage & Highway North
147.30 +	141.3	KL7ION		Very Wide Area
146.85 -	no tone	KL7JFU		Mat Valley
146.91 -	no tone	KL7JL		Homer
147.15 +	107.2	KL5E	Phone patch	Eagle River & Chugiak
147.84 -	103.5	WL7CWE		Wasilla Repeater
147.33 +	103.5	WL7CVF	Cross linked to 443.900	Very Wide Area *
443.900 +	103.5	WL7CVF	Cross linked to 147.330	Very Wide Area **
Note:	443.9 Grubstake UHF is currently			

South Central Area Simplex Frequencies	
146.52 MHz	National Calling and Emergency frequency
147.57 MHz	DX Spotting frequency
146.49 MHz	Anchorage area simplex chat
146.43 MHz	Mat-Su Valley simplex chat
147.42 MHz	Peninsula simplex chat

WINLINK	Callsign	Frequency
Anchorage ARES RMS	WL7CVG-10	144.9
Palmer (MATSU) RMS	KL7JFT-10	145.19
FAIRBANKS RMS	KL7EDK-10	147.96
South Central Digipeater	WL7CVG-4	144.9
Anchorage AARC RMS	KL7AA-10	144.98

AARC Board of Directors Meeting Minutes 9-20-16

The Anchorage Amateur Radio Club board of Directors meeting was held on Tuesday, September 20, 2016 at the Hope Cottage building in the conference room . The meeting was called to order at 7:00 PM by President Lara Baker AL2R.

The following officers were present:

President Lara Baker AL2R

Secretary Lillian Marvin KL7YF

Treasurer Alice Baker AL2GD

Vice President Kent Petty KL5T was an excused absence.

The following directors were present:

TJ Sheffield KL7TS, Richard Tweet KL2AZ, Sydney White KL4DG, Allen Abbott KB1QCE, George Wilkinson KL1JJ, Rich Gillin (via phone), Jim Wiley KL7CC (via phone), and David Heimke AL7LO (via phone)

Keith Clark was also present .

Treasurer: Alice reported that no money had come in . The board of directors insurance liability bill had arrived. The attorney's billing rate for the legal matters rising. The insurance bill was for \$1,100.00

Finance: There was a delayed invoice from the club's accountant which included invoices for the months of February, March, and April. The committee will question the charges and request a monthly bill. Club member Lyle Easterly, himself an accountant, was present at the meeting.

Grants: On September 28, Lara or the club accountant will contact the IRS to obtain the name of the IRS examiner who will be reviewing the club's grant application forms.

Gaming: Southside Bingo is still dead. Lara will contact Boniface Bingo about any checks for the club. He will turn in the 2017 gaming paperwork to the State of Alaska in the next few weeks.

TJ reported an income of \$12,500. Last year, at this time, the gaming income was \$18,700. The year has been tight for meeting expenses. Baseline expenditures included, but were not limited to, field day, three new projects, and maintenance.

TJ discussed repairs to 2 amplifiers and recommended yearly maintenance for these amplifiers.

VE: The VE program continues as normal.

Trustee: The trustee reports nothing new.

Membership: Rich reported four new individual memberships.

ARES: Dave reports that the time announcements on the 220, VHF and UHF repeaters are fine. He will complete any repairs on the repeaters by the weekend. He has the 30 Kenwood machine in his basement for repairs which will be done in the near future. Lara asked Dave if he would present a program on IEEE to the general membership in the near future.

Oct Program: Mark Rice will present a program on the Site Summit Nike site.

David Heimke may present a program on HAARP in the future, possibly November.

Allen Abbott is working with the APD on presenting an active shooter program sometime in the future.

Sydney White suggested putting up flyers with club information around UAA and APU campus.

Allen Abbott suggested the flyers only include information on the general meetings.

President Baker adjourned the meeting at 8:46 PM.

Respectfully Submitted

Lillian Marvin KL7YF, Secretary

Anchorage Amateur Radio Club General Meeting Minutes 10-7-16

The Anchorage Amateur Radio Club general meeting was held on Friday, October 7, 2016 in the Carr-Gottstein building on the Alaska Pacific University campus. The meeting was opened at 7:00 PM by President Lara Baker AL2R. Thirty people were present. Introductions were made.

President Baker introduced the guest speaker, Mark Rice, who presented a very interesting program on Site Summit. He presented a detailed history of Site Summit as a Nike site, which was part of the cold war Distant Early Warning system (DEW), a vital of the US's North American defense system. HE then described the formation of the Nike Site Summit Task Force, formed in 1999, which has done a great deal of work to restore and maintain as much of the site as possible, and have presented it as a guided tour tourist attraction.

In 1995, Site Summit was entered in the National Registry of Historic Places.

Raffle prizes were awarded. The general meeting was adjourned by President Baker at 8:10 PM.

Respectfully Submitted,

Lillian Marvin KL7YF, Secretary

Buzzing the Capitol and Inventing the Famous Mile High Club

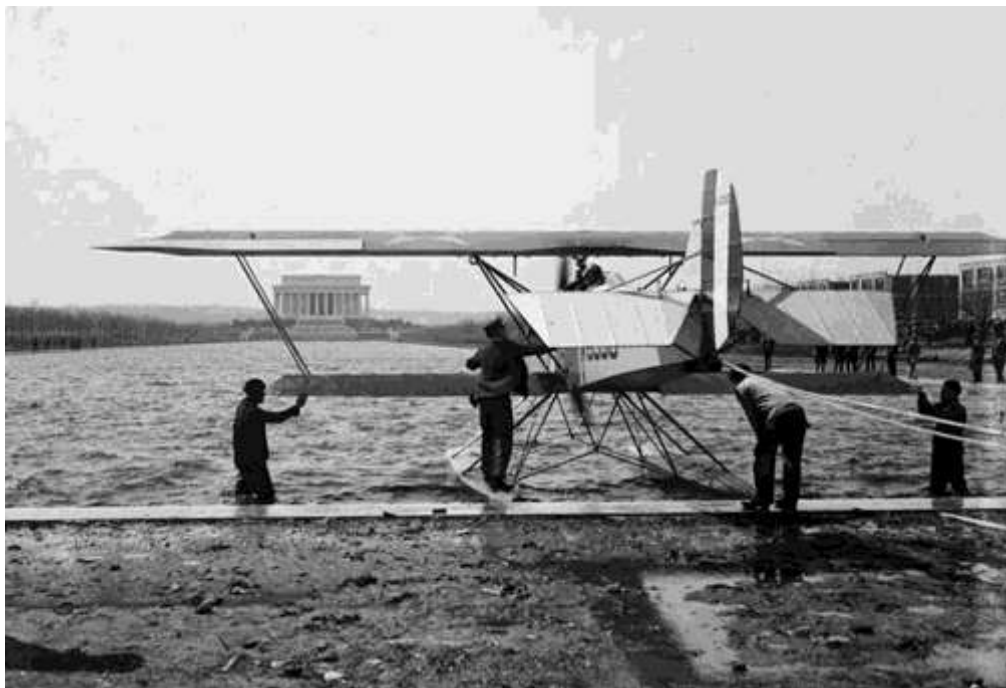


A floatplane takes off from the Reflecting Pool, headed directly toward the Lincoln Memorial in 1923. (Library of Congress)

What is the best weather for a takeoff on the Reflecting Pool? Great question.

A headwind is helpful for maximum lift, and calm water is necessary for a smooth takeoff. It also really helps if the weather cooperates as occurred back in 1923. We don't recommend trying it now.

A century ago, Washington was targeted by aviators and stunt pilots at the dawn of the [<http://goldenageofaviation.org/history.html>] golden age of aviation. The Reflecting Pool takeoff was one of the more interesting stunts performed in 1923. Given the waves in the photo, it appears there was indeed a good headwind to help with lift. After the floatplane rose above the Reflecting Pool, the pilot maneuvered the airplane around the Lincoln Memorial. The stunt was successful.



Preparing for takeoff on the Reflecting Pool in 1923. The floatplane had the entire length of the Reflecting Pool for liftoff before needing to dodge the Lincoln Memorial. (Library of Congress)

The 1923 takeoff may have been inspired by the stunts of [https://en.wikipedia.org/wiki/Lawrence_Sperry]Lawrence Sperry, inventor and aviation pioneer, a year earlier. On March 22, 1922, less than two months after the Knickerbocker Snowstorm buried the District with 28 inches of snow, Sperry buzzed the Capitol dome with an airplane and then landed it next to the Capitol steps. He was immediately greeted by police and government officials who shook his hand and posed for photographs that were shot by photographers who were in the vicinity. That certainly wouldn't be the outcome today.

[https://www.washingtonpost.com/local/public-safety/gyrocopter-pilot-who-landed-at-us-capitol-to-be-sentenced/2016/04/20/3fe834ac-0703-11e6-bdcb-0133da18418d_story.html]Gyrocopter pilot who landed at U.S. Capitol sentenced to 4 months in prison]

Sperry was allowed to take off from the Capitol, and he flew west to the Lincoln Memorial, where he landed again. He posed for more photos. Sperry took off one more time and landed near the U.S. Treasury Department building, where he asked for prompt payment for a contract that he previously worked with the U.S. Navy.



[https://en.wikipedia.org/wiki/Lawrence_Sperry]Lawrence Sperry buzzed the U.S. Capitol and then landed next to the Capitol steps on March 22, 1922, in his Sperry “Flivver.” He was warmly greeted by police and government officials. (Library of Congress)

The 100-year anniversary of the “mile-high club”

Sperry is considered a founding member of the “[https://en.wikipedia.org/wiki/Mile_high_club] mile-high club,” although he was only 500 or 600 feet in the air at the time.

In 1912, Sperry had invented and patented the first autopilot, which he often used and demonstrated in flight. On Nov. 21, 1916, Sperry was flying a "flying boat" with a student and friend, Dorothy Rice Pierce, above the coast of Long Island when he accidentally bumped the autopilot device and disengaged it.

With the autopilot disengaged, the airplane crashed into [https://en.wikipedia.org/wiki/Great_South_Bay] Great South Bay, and Sperry and Pierce were both rescued from the water nude. After the rescue, Sperry said it was the impact of the water that “divested” them of their clothing. No one believed Sperry’s story about how they lost their clothes, and at least one New York tabloid had fun with a [<http://www.milehighclub.com/about/founder.html>] headline at their expense.

Pierce, who was married at the time, divorced her husband 11 months later. She met another man, Hal Sims, on a chartered flight, and they married. [https://en.wikipedia.org/wiki/Dorothy_Rice_Sims] Dorothy Rice Sims went on to become an accomplished pilot, motorcycle racer, bridge player, sportswoman, journalist and political correspondent. She lived 70 years and died on March 24, 1960.



Dorothy Rice Pierce, left, and Lawrence Sperry, right, are thought to be the founding members of the “mile-high club” during a flight on Nov. 21, 1916. (Library of Congress)

Most early pilots feared flying in the fog, but not Sperry. By the end of 1923, Sperry had logged more than 4,000 hours of flight time and he was very comfortable flying with newly invented instruments in his airplane that helped navigate during poor visibility. Unfortunately, poor visibility is what would eventually kill him.

On Dec. 13, 1923, Sperry took off from England for a short flight to France despite heavy fog over the English Channel. He never arrived. His body was later found in the Channel on Jan. 11, 1924. Sperry was only 30 at the time of his death.

During his short lifetime, Sperry held 24 patents and is credited with inventing the autopilot, the [https://en.wikipedia.org/wiki/Turn_and_slip_indicator] turn-and-slip indicator, retractable landing gear and an effective aerial torpedo. The name, Sperry, and [https://en.wikipedia.org/wiki/Sperry_Corporation] Sperry Corp., which was founded by [https://en.wikipedia.org/wiki/Elmer_Ambrose_Sperry] Elmer Ambrose Sperry, the father of Lawrence Sperry, continue to be well-known today in the world of aviation and manufacturing



Lawrence Sperry climbs out of his airplane after landing near the Capitol steps. (Library of Congress)



A crowd gathers around Lawrence Sperry after he landed next to the Capitol steps on March 22, 1922. (Library of Congress)



Lawrence Sperry lands near the Lincoln Memorial after buzzing the Capitol dome and landing at the Capitol steps on March 22, 1922. (Library of Congress)



Lawrence Sperry sits in his airplane near the Lincoln Memorial. He touted that his airplane, the Sperry "Flivver," could fly 100 miles per hour. (Library of Congress)

If you have any questions or would like anything included, please email me at swmarie96@gmail.com!

-KL4DG



Joke of the month: "Two antennas met on a roof, fell in love and got married. The ceremony wasn't much, but the reception was excellent."