Missions for America Semper vigilans! Semper volans!



Publication of the Thames River Composite Squadron Connecticut Wing, Civil Air Patrol 300 Tower Rd., Groton, CT.

Issue 17.34

03 October, 2023

Lt Col Stephen Rocketto Editor I<sup>st</sup> Lt David Pineau, Publisher Maj Roy Bourque, Paparazzo 2d Lt Joanne Richards, PAO Capt Edward Miller, Features Maj Scott Farley, Roving Correspondent Shawn Terry, Automated Sciences, IT Guru

10 OCT-TRCS Staff Projects
17 OCT Commander's Call/Mitchell Ceremony
24 OCT-Staff Projects-Cadet CD or Aerospace
21 OCT-Commander's Cup Rocket Contest
31 OCT-No Senior or Cadet Meeting
04 NOV-Col Palmer Cadet Ball/Veteran's Lunch
07 NOV-Senior Staff Meeting-Cadet PT
14 NOV-Staff Projects
21 NOV-Commanders Call/Cadet Promotions
28 NOV-Staff Projects

CADET MEETING

03 October, 2023

The cadets received lessons and practical

experiences in ironing shirts, polishing boots, and military courtesies.

**SENIOR MEETING** 

03 October, 2023 StaffMeeting

Three potential members attended. The format for a staff meeting was modified. Department heads presented their reports as customary but also reviewed their responsibilities and opportunities training and advancement in their specialty tracks.

## AEROSPACE CHRONOLOGY

Oct. 4, 1943 – Operation Leader was a combined effort of the U.S. Navy and Royal Navy to destroy German shipping along the Norwegian Coast. The USS Ranger (CV-4) equipped with 27 F4F Wildcats, 27 SBD Dauntless dive bombers an 18 TBF Avenger torpedo planes was the primary strike element of the U.S contribution. Ranger was supported by two heavy cruisers and five destroyers.



Ranger was originally designed without an island. When an island was added late in the design stage a "normal exhaust" stack could not be installed because of the arrangement of the machinery. The six stacks are rotated to a horizontal position during flight operations. (Credit:USN)

Operation Leader was a minor success. Six German transport ships were claimed sunk and four damaged which disrupted shipments of iron ore to Germany.

carrier was too small and slow for Pacific successful R100 be scrapped and the airship operations with the new class of fast carriers so program cancelled. Today, they shed the she spent most of the war in the Atlantic where she documents, scrub the hard-drives, erase the eprovided air support for Operation Torch, the mails and phone records, smile politely and blame invasion of North Africa, ferried aircraft and someone else. trained aircrews.

Oct. 5, 1930 - The British rigid airship R101 failures, George Shirley Mills, a McDonnell test crashed in Beauvais, France while on its maiden voyage. She was carrying a delegation of diplomats to India and 48 lives were lost.



The R-101 moored at Cardington.

R101 was built as part of a quasi-political and transportation program called the Imperial Airship Scheme planned to connect the far flung parts of the British Empire with a fast mail and passenger service. The Air Ministry funded two airships, the R101 designed and built by the government airship works at Cardington and the R100, privately designed and constructed by the Airship Guarantee Company, a subsidiary of Vickers-Armstrong.

R100 was eminently successful, completing a trans-Atlantic round trip to Canada. This set the stage for the R101 disaster. The Air Ministry, lacking confidence in the ability of the somewhat troubled design of the R100 to make the India flight but pushed by financial considerations, pride and public opinion made the attempt but encountered control and structural problems in a storm and crashed.

Embarrassed, the Air Ministry resorted to what is now traditional government maneuvers to cover Ranger, the first United States purpose built the damning evidence. They ordered that the

> Oct. 6, 1955 - Encountering major systems pilot bails out of his F3H-2N Demon. However, the aircraft stubbornly remains aloft for an hour without a canopy, pilot and ejection seat until it crashes into a cornfield in Iowa, 250 miles away from the bail-out site.



The F3H-2N Demon was an all-weather fighter which in 1962, under the new DoD unified naming system became the F-3C.

This unmanned Demon flew 180 miles more than the unmanned F-135B Lightning II which crashed in the Carolinas. Does this reflect on the stability of the new breed of fly-by-wire aircraft?

Enthusiasts of the aviation cinema would like to believe that during the accident investigation he explained details of what caused the incident and the investigator said "Surely you can't be serious?" to which Mills replies "I am serious ----and don't call me Shirley."

Oct. 7, 1909 Glenn Curtiss/01900 becomes the first American to hold an FAI airplane certificate.



transcontinental reliability and endurance test. fastest flying time by type, and a handicap based Forty-eight aircraft departed Roosevelt Field, upon cruising speed. Long Island and 15 more left from the Presidio, event. Also flying were a Fokker D.VIII from war Dayton-Wright, Fisher Body and Standard. prize stocks seized by the United States at war's end.

The event was also a race and was and had been conjured up by Brig. General Billy Mitchell, Chief of Army Air Service Training and Army public affairs to demonstrate the ability of its men and planes operate under different kinds of flying conditions over an extended distance to make points during the upcoming congressional air service appropriation hearings and to promote aviation.



Billy Mitchell, the stormy petrel of the U.S Army Air Service in full formal finery.

The course was a round trip which required a return to the starting point of each individual aircraft, a 5,400 mile journey and was routed along railway lines since formal aerial navigation charts did not exist. The rules also required that on each transcontinental leg there be 20 intermediate stops of no more than 30 minutes nor less that 48 hours at airports within 180 miles of each other. Night flying was forbidden and each multi-seat aircraft had to carry one passenger. Aircraft were limited to U.S. government owned aircraft, mostly DH-4s and some Royal Aircraft Factory SE-5s, and the SPAD SXIII manufactured in the United States. Participants had to be an American military pilot or a military pilot form a World War One ally. A Oct.8, 1919 - Start date of the first and only range of prizes were set for shortest elapsed time.

San Francisco which at that time was an Army Air The DH.4 was the only U.S. built aircraft to see Service airfield and was renamed Prissy Field in combat in with the Army in World War I. 4,846 honor of Maj. Dana H. Crissy, one of the seven copies of the Geoffrey de Havilland designed flyers killed in one of the 54 crashes during the DH.4 were built in the United States by Boeing,



The DH.4 pictured above is in the livery of  $12^{th}$ Aero Squadron of the U.S. Army Border Patrol. Eight squadrons were deployed in 1919 to deter the smuggling of illegal aliens, narcotics and weapons.

The contest had an international flavor. Brig. Gen. His decision to take Kline was inciteful. On a Lionel Charlton, Royal Air Force and the British freezing morning just outside of Cheyenne, Air Attaché flew a Bristol F.2 fighter but hit a Wyoming, Maynard started the engine but water in fence near Ithaca, New York during a forced an overflow pipe had frozen and the radiator burst. landing. Capt. Paul de la Verne of the French Air No one at the airport could repair the radiator so Service and the French Air Attaché flew with 1st Maynard and Kline removed it, took it to town and Lt. D. B Gish in a DH-4 until they made an found a plumber who made repairs. The delay was emergency landing in western New York due to an only seven hours. engine fire.



The Bristol F.2B. Part of the Shuttleworth collection.

The winner was Lt. Belvin Maynard. He had studied divinity at Wake Forest University and was known as the "Flying Parson." During the war, he spent most of his time testing aircraft and may have had more time in the DH-4 than any other AAS pilot. A year or so before the transcontinental event, he gained some fame and importance experience winning an air race from New York to Toronto.

His plane was a DH-4, named Hello Frisco and the passengers were his mechanic, William Kline whom he called "the best mechanic in the Air Service." and his dog, Trixie.



Trixie, Maynard, and Kline



A good picture of the DH-4 radiator.

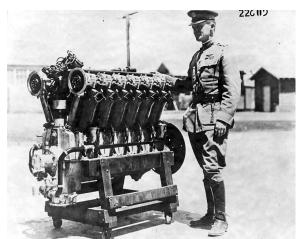
On the return flight, Maynard was "on top" but reduced power to descend through the clouds and check his position. When he advanced the throttle to climb back up, the hollow crankshaft of the liberty engine broke and he had to dead-stick into a pasture in Nebraska.

They needed a new engine and remembered from a newspaper report that Capt. Roy N. Francis flying a twin engine Martin MB-1 had hit telegraph wires at Yutan, Nebraska while trying to land in fog. Yutan was only ten miles away from their landing site.



The Martin MB-1. The engine size can be scaled by the size of the pilot in the cockpit.

same day using a borrowed truck from the Omaha to hold a constant heading, have plenty of Army Base. While Maynard drove to get the experience in type treat an engine with respect, replacement engine, Kline and a farmer who had remember that most engine failures are associated worked on Liberty engines while in the Navy with changes in throttle settings, preheat engines positioned the aircraft under a tree and removed on cold days and finally, it helps if God is your cothe damaged engine. When the new engine pilot so don't skip divinity school. arrived, they worked through the night, installed it, and were able to depart the next day. The aircraft Mitchell's transcontinental brainchild revealed that may have been made of wood and fabric but the Air Service aircraft were inadequate for austere men were made of iron.



Maj Hap Arnold with the first of the Liberty V-12 power plants.

Maynard gained two advantages from his previous testing of DH-4s and long distance racing. The Liberty engine was rated for 1,650 rpm maximum and it developed vibrations between 1,400 and 1,500 rpms so he set cruise at 1,550 to baby the engine.

In addition, most of the other races flew "contact IFR" (I Follow Railways.) Maynard used his compass and held a tight direct heading, gaining time by reducing the distance he needed to fly from point to point.

On the 18th of October, Maynard, Kline, and Trixie landed back at Roosevelt Field. He was the first to land, nine days four hours, 25 minutes and 12 seconds after his westward departure. His actual flying time was 25 hours, 16 minutes and 47 seconds.

Maynard, got hold of one of the MB-1 engines that Lessons learned. Fly with a good mechanic, learn

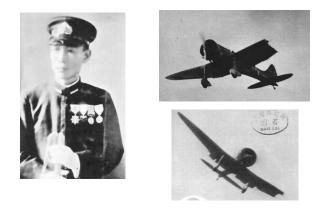
and challenging conditions and pilot skills were marginal in both airmanship and navigation. However, they pioneered the aerial trail which became the first transcontinental airmail route and provided experiences which would be useful for establishing safe and reliable long distance flying.

Maynard was touted as 'the greatest pilot on earth" but sic transit gloria mundi, fame is fleeting. A month after the end of the race, he "got in dutch" when he made an address at a temperance meeting and claimed the some of the race pilots had been drunk. His Baptist training at Wake Forest had come back to bite him. The Army took offense and insisted that the racers had been checked at all of the intermediate stops and no one had been found intoxicated. There were murmurings about a courtmartial. He resigned from the army and became a barnstormer.

On September 7, 1922, he was performing at an airshow in Rutland, Vermont flying an Avro 504 and carrying two other men. He had been doing the same aerobatic routine all week but this time entered a spin at 2,000 feet and failed to recover. Maynard and his two passengers were killed.

## Wing and a Prayer Department

09 DEC, 1937 – During air combat in China, Pilot Officer 3rd Class Kanichi Kashimura, Imperial Japanese Navy, flying a Mitsubishi Type 97 A5M Claude, collides with a Chinese Curtiss Hawk and loses the outer third of his port wing. He returns to base and after multiple attempts at landing crashes but walks away unharmed.



He achieves fame in Japan as the pilot who flew a plane with one wing. Kashimura will earn Ace status but goes West six years later when he is shot down while flying an A6M2 zero, most likely by the rear gunner of a USMC SBD Dauntless.

Thirty-seven years later, January 10th, 1985, a Boeing B-52 flown by a Boeing test crew led by Charles Fisher encountered extreme turbulence which tore the horizontal fin and rudder off the aircraft. Fisher regained control and managed a safe landing six hours later.



(Credit: USAF)

to view a video go to https://www.youtube.com/watch?v=b-Ek42EhHsw

On June 18th, 2009, Israeli pilot Zvi Nadivi and his instructor Yehoar Gal flying an F-15D collided with an A-4 Skyhawk during an aerial combat maneuvering exercise. The starboard wing of the F-15D was destroyed. The wing damage was not visible from the cockpit.



Zvi and his back-seater elected to stay with the plane and used power management and deft control manipulations to safely land.



*For a video, go to: https://www.youtube.com/watch?v=LveSc8Lp0ZE* 

Oct. 10, 1958 – The USAF Thunderbirds have the worst accident in their history and it does not involve any demonstration aircrafts flying aerobatic routines.

A C-123B Provider carrying the Thunderbird maintenance crew from Hill AFB, Utah to McChord AFB Washington crashes near Payett, Idaho. Five crew member and all 14 maintenance personnel on board are killed.



The contributing causes to the accident are disputed. The primary cause is that the aircraft flew into a flock of birds but subsequent investigation concluded that the plane was overloaded, the pilot may have been incapacitated, crew rest restrictions violated and the pilot seat was not occupied by a qualified pilot.